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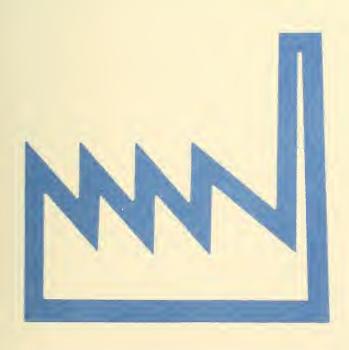
# 1987 Census of Manufactures

MC87-I-23D

**INDUSTRY SERIES** 

# Miscellaneous Apparel and Accessories

Industries 2371, 2381, 2384, 2385, 2386, 2387, and 2389



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If you have any questions concerning the statistics in this report, call (301) 763-2510.

# 1987 Census of

**Manufactures** 

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# INTRODUCTION

# PURPOSE AND USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source of facts about the structure and functioning of the Nation's economy. They provide essential information for government, business, industry, and the general public.

Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries, and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

### **AUTHORITY AND SCOPE**

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic censuses every 5 years, covering years ending in 2 and 7. The 1987 Economic Censuses consist of the

Census of Retail Trade
Census of Wholesale Trade
Census of Service Industries
Census of Transportation
Census of Manufactures
Census of Mineral Industries
Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

### **AVAILABILITY OF THE DATA**

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

### WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

## HISTORICAL INFORMATION

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying intervals.

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial

activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

# AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Business Reports* (retail and wholesale trade and service industries), the *Annual Survey of Manufactures, Current Industrial Reports*, and the *Quarterly Financial Report*. Most of these surveys, while providing more frequent

observations, yield less kind-of-business and geographic detail than the censuses. The *County Business Patterns* program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

### SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1987 Economic Censuses and Related Statistics.* More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1987 Economic Censuses.* Contact Customer Services for information on availability.

### **CENSUS OF MANUFACTURES**

### General

This report, from the 1987 Census of Manufactures, is one of a series of 83 industry reports, each of which provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each State and the District of Columbia and for special subjects such as type of organization, distribution of sales by class of customer, concentration ratios and water use in manufacturing.

The industry reports include such statistics as number of establishments, employment, payroll, value added by manufacture, cost of materials consumed, capital expenditures, product shipments, etc.

State reports present similar statistics for each State and its important metropolitan statistical areas (MSA's), counties, and places. Selected statistical totals for "all manufacturing" have been shown in the State reports for MSA's with 250 employees or more and for counties and places with 450 employees or more.

The General Summary report will contain industry, product class, and geographic area statistics summarized in one report. The introduction to the General Summary discusses, at greater length, many of the subjects described in this introduction. For example, the General Summary text will discuss the relationship of value added by manufacture to National income by industry of origin, the changes in statistical concepts over the history of the censuses, and the valuation problems arising from intracompany transfers between manufacturing plants of a company and between manufacturing plants and sales offices and sales branches of a company.

# Scope of Census and Definition of Manufacturing

The 1987 Census of Manufactures covers all establishments with one paid employee or more primarily engaged in manufacturing as defined in the 1987 Standard Industrial

Classification (SIC) Manual<sup>1</sup>. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines manufacturing as the mechanical or chemical transformation of substances or materials into new products. The assembly of component parts of products also is considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills that characteristically use powerdriven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfers to other plants of the same company, or to the order of industrial users rather than for direct sale to the household consumer. Some manufacturers in a few industries sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salespersons. Some activities of a service nature (enameling, engraving, etc.) are included in manufacturing when they are performed primarily for trade. They are considered nonmanufacturing when they are performed primarily to the order of the household consumer.

# Relationship Between Annual Survey of Manufactures and Census of Manufactures

The Bureau of the Census conducts the annual survey of manufactures (ASM) in each of the 4 years between the censuses of manufactures. The ASM is a probability-based sample of approximately 56,000 establishments and collects the same industry statistics (employment, payroll, value of shipments, etc.) as the census of manufactures. In addition to collecting the information normally requested on the census form, the establishments in the ASM sample are requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, costs of purchased services, and foreign content of materials consumed. Except for supplemental labor costs, the extra ASM items are collected only in census years.

# **Establishment Basis of Reporting**

The census of manufactures is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location. The ASM also is conducted on an establishment basis, but separate reports are filed for just those establishments selected in the sample. Companies engaged in

distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

In 1987, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries. This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company (see Auxiliaries).

## Manufacturing Universe and Census Report **Forms**

The 1987 Census of Manufactures universe includes approximately 350,000 establishments. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures. The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

## 1. Small Single-Establishment Companies Not Sent a Report Form

In the 1987 Census of Manufactures, approximately 150,000 small single-establishment companies were excused from filing reports. Selection of these small establishments was done on an industry-by-industry basis and was based on annual payroll and total shipments data as well as on the industry classification codes contained in the administrative records of Federal agencies. The cutoffs were selected so that these administrative-records cases would account for no more than 3 percent of the value of shipments for all manufacturing. Generally, all single-establishment companies with less than five employees were excused, while all establishments with more than 20 employees were mailed forms.

Information on the physical location of the establishment, as well as information on payrolls, receipts (shipments), and industry classification, was obtained from the administrative records of other Federal agencies under special arrangements, which safeguarded their confidentiality. Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials

<sup>1</sup>Standard Industrial Classification Manual: 1987: For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, Stock No. 041-001-00314-2.

were not distributed among specific products and materials for these establishments but were included in the product and material "not specified by kind" (n.s.k.) categories.

The industry classification codes included in the administrative-records files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded at the fourdigit SIC level. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes these administrative-record cases were only given a two- or three-digit SIC group. For the 1987 Census of Manufactures, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the four-digit SIC level. Establishments that did not return the classification form were coded later to those four-digit SIC industries identified as "not elsewhere classified" (n.e.c.) within the given two- or three-digit industry groups.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassification has no significant effect on the statistics other than on the number of companies and establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

### 2. Establishments Sent a Report Form

The 200,000 establishments covered in the mail canvass were divided into three groups:

a. ASM sample establishments—This group consisted of approximately 56,000 establishments covering all the units of large manufacturing establishments as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size (see appendix, Annual Survey of Manufactures).

In a census of manufactures year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, and costs of purchased services. See appendix A, section 2, for an explanation of these items.

The census part of the report form is one of approximately 200 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of these many forms to canvass the 459 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries as well as secondary products and miscellaneous services that establishments classified in these industries were likely to be performing. Respondents were requested to identify the products, the value of each product, and, in a large number of cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materialsconsumed inquiry, which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant material not identified on the form.

Finally, a wide variety of special inquiries was included to measure activities peculiar to a given industry, such as operations performed and equipment used.

- b. Large and medium establishments (non-ASM)—Approximately 84,000 establishments were included in this group. A variable cutoff, based on administrative-records payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive one of the approximately 200 census of manufactures regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.
- c. Small single-establishment companies (non-ASM)—This group consisted of approximately 60,000 establishments. For those industries where application of the variable cutoff for administrativerecords cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or "short" form was used. These establishments received one of the approximately 80 versions of the short form, which requested

summary product and material data and totals but no details on employment, payrolls, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics; the same data were collected on the short form as on the long form. However, detailed information on materials consumed was not collected on the short form; thus its use would increase the value of the n.s.k. categories.

### **Auxiliaries**

In this industry report, the data on employment and payroll are limited to operating manufacturing establishments. The census report form filed for auxiliaries (ES-9200) requested a description of the activity of the establishments serviced. However, the manufacturing auxiliaries were coded only to the two-digit major group of the establishments they served; whereas, the operating establishments were coded to a four-digit manufacturing industry. Data for the approximately 10,000 separately operated auxiliaries are included in the geographic area series and in a report issued as part of the 1987 Enterprise Statistics Survey.

Auxiliaries are establishments whose employees are primarily engaged in performing supporting services for other establishments of the same company, rather than for the general public or for other business firms. They can be at different locations from the establishments served or at the same location as one of those establishments but not operating as an integral part thereof and serving two establishments or more. Where auxiliary operations are conducted at the same location as the manufacturing operation and operate as an integral part thereof, they usually are included in the report for the operating manufacturing establishment.

Included in the broad category of auxiliaries are administrative offices. Employees in administrative offices are concerned with the general management of multiestablishment companies, i.e., with the general supervision and control of two units or more, such as manufacturing plants, mines, sales branches, or stores. The functions of these employees may include (1) program planning, including sales research and coordination of purchasing, production, and distribution; (2) company purchasing, including general contracts and purchasing methods; (3) company financial policy and accounting; (4) general engineering, including design of product machinery and equipment, and direction of engineering effort conducted at the individual operation locations; (5) direction of company personnel matters; and (6) legal and patent matters.

Other types of auxiliaries serving the plants or central management of the company include purchasing offices, sales promotion offices, research and development organizations, etc.

# **Industry Classification of Establishments**

Each of the establishments covered in the census was classified in 1 of 459 manufacturing industries in accordance with the industry definitions in the 1987 SIC Manual. The 1987 edition of this manual represents a major revision for manufacturing industries from the 1972 edition and its 1977 supplement. Appendix A of the 1987 Manual notes the revisions in the four-digit industry levels between 1972/77 and 1987.

An industry is generally defined as a group of establishments producing the same product or a closely related group of products. The product groupings from which industry classifications are derived are based on considerations such as similarity of manufacturing processes, types of materials used, types of customers, and the like. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees. The system operates in such a way that the definitions progressively become narrower with successive additions of numerical digits. For 1987, there are 20 major groups (two-digit SIC). 139 industry groups (three-digit SIC), and 459 industries (four-digit SIC). This represents an expansion of four-digit industries from 452 in 1972/77 and a reduction of threedigit groups from 143 in 1972/77. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. There are about 11,000 products identified by a seven-digit code. The seven-digit products are considered the primary products of the industry with the same four digits.

Accordingly, an establishment is usually classified in a particular industry on the basis of its major activity during a particular year, i.e., production of the products primary to that industry exceeds, in value, production of the products primary to any other single industry. In a few instances, however, the industry classification of an establishment is not only determined by the products it makes but also by the process employed in operations. Refining of nonferrous metals from ore or rolling and drawing of nonferrous metals (processes which involve heavy capitalization in specialized equipment) would be classified according to the process used during a census year. These establishments then would be "frozen" in that industry during the following ASM years.

In either a census or ASM year, establishments included in the ASM sample with certainty weight, other than those involved with heavily capitalized activities described above, are reclassified by industry only if the change in the primary activity from the prior year is significant or the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year (see appendix, Annual Survey of Manufactures).

However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The result of these rules covering the switching of plants from one industry classification to another is that, at the aggregate level, some industries comprise different mixes of establishments between survey years, and establishment data for such industry statistics as employment and payroll may be tabulated in different industries between survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the four-digit SIC level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments.

While some establishments produce only the primary products of the industry in which they are classified, all establishments of an industry rarely specialize to this extent. The industry statistics (employment, inventories, value added by manufacture, total value of shipments including resales and miscellaneous receipts, etc.) shown in tables 1a through 5a, therefore, reflect not only the primary activities of the establishments in that industry but also their secondary activities. The product statistics in table 6a represent the output of all establishments whether or not they are classified in the same industry as the product. For this reason, in relating the industry statistics, especially the value of shipments to the product statistics, the composition of the industry's output shown in table 5b should be considered.

The extent to which industry and product statistics may be matched with each other is measured by two ratios which are computed from the figures shown in table 5b. The first of these ratios, called the primary product specialization ratio, measures the proportion of product shipments (both primary and secondary) of the establishments classified in the industry represented by the primary products of those establishments. The second ratio, called the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

However, establishments making products falling into the same industry category may use a variety of processes and materials to produce them. Also, the same industry classification (based on end products) may include both establishments that are highly integrated and those that put only the finishing touches on an already highly fabricated item. For example, the refrigeration equipment industry includes instances of almost complete integration (production of the compressor, condensing unit, electric motor, casting, stamping of the case, and final assembly) all

carried on at one plant. On the other hand, the condensing unit, the motor, and the case may be purchased and only assembled into the finished product.

In some instances, separate industry categories have been established for integrated and nonintegrated establishments. For other industries, the census provides separate statistics on the production of intermediate commodities made and used in the producing plant. For some industries characterized by many plants of the same company, separate figures on interplant transfers of products usually are shown.

Differences in the integration of production processes, types of operations, and alternatives in types of materials used should be considered when relating the industry statistics (employment, payrolls, value added, etc.) to the product and material data.

# Value of Shipments for the Industry Compared With Value of Product Shipments

This report shows value of shipments data for industries and products. In tables 1a through 5a, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6a represents the total value of all products shipped that are classified as primary to an industry.

### CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1a through 5a of this report is based on the total value of shipments. When the total value of shipments cannot be shown without disclosing information for individual companies, the complete line is suppressed. However, the suppressed data are included in higher-level totals. Additional disclosure analysis is performed for new capital expenditures that can be suppressed even though value of shipments data are publishable.

### SPECIAL TABULATIONS

Special tabulations of data collected in the 1987 Census of Manufactures may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential

information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, DC 20233.

## ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

Represents zero.
Withheld to avoid disclosing data for individual
companies; data are included in higher level
totals.
Not available.
Not comparable.
Withheld because estimate did not meet pub-
lication standards.
Not applicable.
Less than half the unit shown.
Ditto.

n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
pt.	Part.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, doz, bbl, and s tons, are used in the customary sense.

### **CONTACTS FOR DATA USERS**

Subject Area	Contact	Phone
Census/ASM Durables Nondurables	Kenneth Hansen Michael Zampogna	(301) 763-7304 (301) 763-2510
Current Industrial Reports Durables Nondurables	Malcolm Bernhardt Thomas Flood	(301) 763-2518 (301) 763-5911
Import/Export Publications	Foreign Trade Division	(301) 763-5140
Industry Analysis and Forecasts	International Trade Administration	(202) 377-4356

# Users' Guide for Locating Statistics in This Report by Table Number

For explanation of terms, see appendixes

			Four-dig	it industry :	statistics					duct class and duct statis	
Item	Histori- cal	Operat- ing ratios	By geo- graphic area	Sum- mary and supple- mental	By employ- ment size	By industry and product class specialization	Materials con- sumed by kind	Industry- product analysis	Product ship- ments	Product class by geo- graphic area	Historical product class
Number of companies	1a			3a					*6a		
Number of establishments	1a.		2	3a	4	5a					
Employment and payroll:  Number of employees  Payroll  Supplemental labor costs  Production workers  Production- worker hours  Production- worker wages	1a 1a 1a 1a 1a	1b 1b 1b 1b 1b	2 2 2 2 2	3a 3a 3a 3a 3a 3a	4 4 4 4	5a 5a 5a 5a 5a					
Shipments, cost of materials, and value added: Value of shipments (four-digit) Product class shipments (five-digits) Product shipments (seven-digit) Value added by manufacture Cost of materials	1a 1a 1a	1b 1b 1b	2 2 2	3a 3a 3a	4 4	5a 5a 5a		5b	6a 6a	6b	<b>6</b> c
Fuels and electric energy Materials consumed by kind .  Inventories: Total, end of year By stage of fabrication	1a			3a 3a 3a	4		7				
Capital expenditures, assets, rental payments, and purchased services: New capital expenditures Used plant and equipment expenditures Gross assets Depreciation Retirements of buildings and machinery Rental payments Foreign content of materials consumed Purchased services	1a		2	3b 3b 3b 3b 3b 3c 3c	4	5a					
Ratios: Specialization Coverage	1a 1a			3a 3a				5b 5b			

<sup>\*</sup>Number of companies with shipments of more than \$100 thousand.

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# DESCRIPTION OF INDUSTRIES AND SUMMARY OF FINDINGS

This report shows 1987 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC code and title

2371	Fur Goods
2381	Fabric Dress and Work Gloves
2384	Robes and Dressing Gowns
2385	Waterproof Outerwear
2386	Leather and Sheep-Lined Clothing
2387	Apparel Belts
2389	Apparel and Accessories, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account when comparing industry statistics (tables 1 through 5a) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b. which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other Federal agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions included in the 1987 Standard Industrial Classification (SIC) Manual<sup>1</sup>. The 1987 edition represents a major revision for manufacturing industries from the 1972 edition and its 1977 supplement. In addition to the 1987 SIC revision, changes were made to the product class

<sup>1</sup>Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

(five-digit) and product code (seven-digit) categories. The product class and product code comparability between the 1987 and 1982 censuses is shown in the appendixes. These appendixes present, in tabular form, the linkage from 1987 to 1982.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

# **INDUSTRY 2371, FUR GOODS**

This industry is made up of establishments primarily engaged in manufacturing fur coats, and other clothing, accessories, and trimmings made of fur. Establishments primarily engaged in manufacturing sheep-lined clothing are classified in industry 2386, and those engaged in dyeing and dressing of furs are classified in industry 3999.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2371, Fur Goods, had employment of 2.1 thousand. The employment figure was 38 percent below the 3.4 thousand reported in 1982. The leading State in employment in 1987 was New York, accounting for 81 percent of the industry's employment. New York also was the leader in 1982, when it accounted for 88 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$422.6 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2371 shipped \$398.8 million of fur goods products considered primary to the industry, \$1.0 million of secondary products, and had \$22.7 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 99 percent (specialization ratio). In 1982, the specialization ratio also was 99 percent.

Establishments in this industry also accounted for 99 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio also was 99 percent. The products primary to industry 2371, no matter in what

industry they were produced, appear in table 6a and aggregate to \$399.2 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the fur goods industry amounted to \$292.6 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 23 percent of total value of shipments.

# INDUSTRY 2381, FABRIC DRESS AND WORK GLOVES

This industry is made up of establishments primarily engaged in manufacturing dress, semidress, and work gloves and mittens from purchased woven or knit fabrics, or from these materials combined with leather or plastics. Knitting mills primarily engaged in manufacturing gloves and mittens are classified in industry 2259; establishments primarily engaged in manufacturing leather gloves are classified in industry 3151; those manufacturing sporting and athletic gloves are classified in industry 3949; and those manufacturing safety gloves are classified in industry 3842.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2381, Fabric Dress and Work Gloves, had employment of 4.8 thousand. The employment figure was 29 percent below the 6.8 thousand reported in 1982. The leading States in employment in 1987 were Mississippi, North Carolina, and Alabama. This represents a shift from 1982 when North Carolina, Mississippi, Alabama, and Tennessee were the leading States in employment.

The total value of shipments for establishments classified in this industry was \$180.8 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2381 shipped \$161.6 million of fabric dress and work gloves products considered primary to the industry, \$7.6 million of secondary products, and had \$11.6 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 96 percent (specialization ratio). In 1982, the specialization ratio was 89 percent.

Establishments in this industry also accounted for 84 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 85 percent. The products primary to industry 2381, no matter in what industry they were produced, appear in table 6a and aggregate to \$192.4 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the fabric dress and work gloves industry amounted to \$80.8 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

# INDUSTRY 2384, ROBES AND DRESSING GOWNS

This industry is made up of establishments primarily engaged in manufacturing men's, boys', and women's robes and dressing gowns from purchased woven or knit fabrics. Establishments primarily engaged in manufacturing girls', children's, and infants' robes from purchased fabric are classified in industry 2369. Knitting mills primarily engaged in manufacturing knit robes and dressing gowns are classified in industry 2253.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2384, Robes and Dressing Gowns, had employment of 8.7 thousand. The employment figure was 16 percent below the 9.3 thousand reported in 1982. The leading States in employment in 1987 were New York, California, Tennessee, and South Carolina. This represents a shift from 1982 when New York, North Carolina, South Carolina, and California were the leading States in employment.

The total value of shipments for establishments classified in this industry was \$502.6 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2384 shipped \$367.4 million of robes and dressing gowns products considered primary to the industry, \$45.6 million of secondary products, and had \$89.7 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 89 percent (specialization ratio). In 1982, the specialization ratio was 94 percent.

Establishments in this industry also accounted for 73 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 81 percent. The products primary to industry 2384, no matter in what industry they were produced, appear in table 6a and aggregate to \$502.3 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the robes and dressing gowns industry amounted to \$278.3 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

### INDUSTRY 2385, WATERPROOF OUTERWEAR

This industry is made up of establishments primarily engaged in manufacturing raincoats and other waterproof outerwear from purchased rubberized fabrics, plastics, and similar materials. Included in this industry are establishments primarily engaged in manufacturing waterproof or water-repellant outerwear from purchased woven or knit fabrics other than wool. Establishments primarily engaged in manufacturing men's and boys' oiled-fabric work clothing are classified in industry 2326, and those manufacturing vulcanized rubber clothing and clothing made from rubberized fabrics produced in the same establishment are classified in industry 3069.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2385, Waterproof Outerwear, had employment of 6.4 thousand. The employment figure was 31 percent below the 9.3 thousand reported in 1982. The leading States in employment in 1987 were Maryland, Massachusetts, and New Jersey, accounting for approximately 50 percent of the industry's employment. This represents a shift from 1982 when Maryland, Massachusetts, Alabama, and New York accounted for 60 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$333.0 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2385 shipped \$273.9 million of waterproof outerwear products considered primary to the industry, \$27.8 million of

secondary products, and had \$31.4 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 91 percent (specialization ratio). In 1982, the specialization ratio was 89 percent.

Establishments in this industry also accounted for 86 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 88 percent. The products primary to industry 2385, no matter in what industry they were produced, appear in table 6a and aggregate to \$318.1 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the waterproof outerwear industry amounted to \$162.5 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

# INDUSTRY 2386, LEATHER AND SHEEP-LINED CLOTHING

This industry is made up of establishments primarily engaged in manufacturing leather and sheep-lined clothing. Establishments primarily engaged in manufacturing leather gloves and mittens are classified in industry 3151, and those manufacturing fur clothing are classified in industry 2371.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2386, Leather and Sheep-Lined Clothing, had employment of 2.1 thousand. The employment figure was 51 percent below the 4.3 thousand reported in 1982. The leading States in employment in 1987 were California, New Jersey, and New York, accounting for approximately 70 percent of the industry's employment. This represents a shift from 1982 when New York, California, Massachusetts, and New Jersey accounted for approximately 70 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$201.8 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2386 shipped \$169.8 million of leather and sheep-lined clothing products considered primary to the industry, \$7.9

million of secondary products, and had \$24.2 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 96 percent (specialization ratio). In 1982, the specialization ratio was 92 percent.

Establishments in this industry also accounted for 97 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 94 percent. The products primary to industry 2386, no matter in what industry they were produced, appear in table 6a and aggregate to \$175.1 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the leather and sheep-lined clothing industry amounted to \$110.3 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

# **INDUSTRY 2387, APPAREL BELTS**

This industry is made up of establishments primarily engaged in manufacturing apparel belts of any material.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2387, Apparel Belts, had employment of 10.5 thousand. The employment figure was 10 percent below the 11.7 thousand reported in 1982. The leading States in employment in 1987 were New York, California, Texas, and Connecticut, accounting for approximately 75 percent of the industry's employment. These same States were the leaders in 1982, when they accounted for 70 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$627.8 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2387 shipped \$513.6 million of apparel belts products considered primary to the industry, \$39.6 million of secondary products, and had \$74.5 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 93 percent (specialization ratio). In 1982, the specialization ratio was 89 percent.

Establishments in this industry also accounted for 94 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 95 percent. The products primary to industry 2387, no matter in what industry they were produced, appear in table 6a and aggregate to \$546.8 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the apparel belts industry amounted to \$294.5 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 3 percent of total value of shipments.

# INDUSTRY 2389, APPAREL AND ACCESSORIES, N.E.C.

This industry is made up of establishments primarily engaged in manufacturing suspenders, garters, handkerchiefs, and other apparel, not elsewhere classified, such as academic caps and gowns, vestments, and theatrical costumes. Also included are establishments primarily engaged in manufacturing clothing by cutting and joining (for example, by adhesives) materials such as paper and nonwoven textiles.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) systems. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2389, Apparel and Accessories, N.E.C., had employment of 8.3 thousand. The employment figure was 5 percent below the 8.7 thousand reported in 1982. The leading States in employment in 1987 were Pennsylvania, New York, California, and Illinois, accounting for approximately 53 percent of the industry's employment. These same States were the leaders in 1982, when they accounted for 55 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$383.4 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2389 shipped \$308.7 million of apparel and accessories, n.e.c., products considered primary to the industry, \$29.6 million of secondary products, and had \$45.0 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 91 percent (specialization ratio). In 1982, the specialization ratio also was 91 percent.

Establishments in this industry also accounted for 67 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 91 percent. The products primary to industry 2389, no matter in what industry they were produced, appear in table 6a and aggregate to \$458.5 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the apparel and accessories, n.e.c., industry amounted to

\$166.9 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 10 percent of total value of shipments.

# Table 1a. Historical Statistics for the Industry: 1987 and Earlier Years

[1987 industry definitions are the same as in the 1972/77 Standard Industrial Classification (SIC) system. Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes

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		All establ	ishments <sup>3</sup>	All emp	loyees	Pro	duction wor	kers						Rat	ios
Year <sup>1</sup>	Com- panies² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million i dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture <sup>4</sup> (million dollars)	Cost of materials <sup>5</sup> (million dollars)	Value of shipments (million dollars)	New capital expend-itures <sup>8</sup> (million dollars)	End-of- year inven- tories <sup>4</sup> (million dollars)	Spe- ciali- zation <sup>7</sup> (per- cent)	Cover- age <sup>8</sup> (per- cent)
							INDUS	TRY 2371,	FUR GOODS	S					
1987 Census	380	380	17	2.1	48.2	1.5	2.7	28.1	131.2	292.6	422.6	1.2	79.6	99	99
1986 ASM <sup>9</sup>	(NA)	(NA)	(NA)	2.2	44.4	1.6	3.2	29.8	104.7	251.2	360.4	10.5	72.9	(NA)	(NA)
1985 ASM <sup>9</sup>	(NA)	(NA)	(NA)	2.5	46.4	1.7	3.4	30.7	108.0	273.9	383.7	10.5	79.0	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	2.5	50.5	1.7	3.6	31.8	124.6	274.5	398.1	1.0	76.2	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	3.4	63.5	2.6	5.7	42.3	156.4	283.4	444.5	1.0	74.6	(NA)	(NA)
1982 Census	503	504	43	3.4	59.6	2.5	4.5	41.2	131.6	287.2	419.3	.3	74.5	99	99
1981 ASM	(NA)	(NA)	(NA)	4.2	67.7	3.2	6.0	44.8	160.2	390.1	533.6	10.3	97.2	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	4.4	68.2	3.4	5.9	45.0	156.1	398.1	541.8	101.0	93.8	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	4.8	62.9	3.8	6.4	44.6	147.1	356.2	488.5	4.1	76.8	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	3.9	51.6	3.1	5.2	34.3	116.1	293.1	404.1	10.8	54.3	(NA)	(NA)
1977 Census 1976 ASM9 1975 ASM9 1974 ASM9 1973 ASM9 1972 Census	620 (NA) (NA) (NA) (NA) 796	620 (NA) (NA) (NA) (NA) 797	48 (NA) (NA) (NA) (NA) 48	4.0 3.3 4.1 4.3 3.8 4.7	51.5 35.4 37.8 37.6 33.5 41.2	3.2 2.7 3.5 3.6 3.2 4.0	5.1 4.5 5.3 5.8 5.5 6.7	36.2 25.6 28.4 27.9 26.0 31.1	112.8 74.8 86.3 83.4 63.3 86.2	273.3 166.8 162.3 133.2 140.0 135.5	383.4 246.4 246.0 213.6 208.9 220.0	.5 .9 2.7 .6 1.4	46.5 27.8 33.9 22.9 25.8 27.5	99 (NA) (NA) (NA) (NA) 99	99 (NA) (NA) (NA) (NA) 99
					ı	NDUSTR	7 2381, F	ABRIC DR	ESS AND WO	ORK GLOVE	3				
1987 Census	62	82	58	4.8	47.9	4.3	7.3	37.4	98.2	80.8	180.8	1.5	32.6	96	84
1986 ASM	(NA)	(NA)	(NA)	5.7	48.3	5.2	8.2	39.3	100.6	86.2	190.5	1.0	29.8	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	6.6	58.5	6.0	10.1	47.7	138.2	126.0	261.3	1.5	49.5	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	7.2	67.1	6.3	10.6	51.8	143.2	130.3	269.8	2.7	56.8	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	6.9	61.3	6.1	9.5	47.6	126.7	103.3	229.9	3.1	51.1	(NA)	(NA)
1982 Census	78	102	64	6.8	51.2	6.1	9.2	41.6	104.7	98.9	208.4	3.4	40.9	89	85
1981 ASM	(NA)	(NA)	(NA)	8.6	65.8	7.9	12.7	53.4	131.3	132.8	265.0	102.3	39.5	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	9.6	64.0	8.7	14.0	52.5	137.9	143.4	280.7	103.6	40.8	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	11.3	76.3	10.4	18.2	65.0	173.4	166.8	337.2	2.0	41.8	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	11.9	81.9	11.0	19.9	68.2	171.2	178.1	347.1	104.7	46.9	(NA)	(NA)
1977 Census 1976 ASM <sup>9</sup> 1975 ASM <sup>9</sup> 1974 ASM <sup>9</sup> 1973 ASM 1972 Census	100 (NA) (NA) (NA) (NA) 106	132 (NA) (NA) (NA) (NA) 137	92 (NA) (NA) (NA) (NA) 94	10.9 9.9 8.8 12.2 11.7 11.9	69.0 63.2 54.3 64.7 55.5 56.3	9.9 8.9 7.9 11.0 10.6	18.0 16.2 13.9 20.4 19.4 20.2	56.3 50.9 42.9 52.6 45.9 47.4	160.9 123.5 105.5 142.3 107.9 100.3	153.2 156.5 134.5 152.2 106.8 99.6	312.4 271.6 243.6 292.4 213.3 198.8	3.5 4.4 4.8 3.2 2.3 1.9	42.1 52.3 41.2 39.0 32.4 30.4	91 (NA) (NA) (NA) (NA) 93	92 (NA) (NA) (NA) (NA) 96
						INDUST	RY 2384,	ROBES A	ND DRESSIN	IG GOWNS					
1987 Census	85	96	74	8.7	101.4	7.3	13.1	70.2	228.0	278.3	502.6	3.3	67.1	89	73
1986 ASM	(NA)	(NA)	(NA)	8.1	85.3	6.6	12.0	55.3	198.7	225.8	422.6	102.2	69.0	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	8.6	83.5	6.9	12.4	55.8	185.8	198.2	386.8	102.4	56.4	(NA)	(NA)
1984 ASM <sup>9</sup>	(NA)	(NA)	(NA)	8.8	91.1	7.3	13.6	61.1	199.9	201.4	407.0	102.1	62.5	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	8.1	85.1	6.7	12.3	58.1	163.4	216.0	381.4	2.8	65.4	(NA)	(NA)
1982 Census	129	135	83	9.3	88.0	8.1	14.8	64.4	193.1	205.6	403.6	3.9	56.0	94	81
1981 ASM	(NA)	(NA)	(NA)	9.9	92.4	8.7	16.0	69.8	197.9	161.1	356.0	4.6	49.5	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	11.6	104.5	9.4	17.1	72.7	218.7	223.3	441.6	6.2	64.7	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	10.6	85.2	9.2	16.7	61.5	175.3	180.2	355.3	4.7	46.5	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	10.4	74.0	8.9	15.6	54.0	155.5	174.4	326.7	109.8	50.4	(NA)	(NA)
1977 Census	136	152	99	9.6	65.1	8.3	14.9	48.6	141.9	155.7	293.6	3.3	44.6	(NA)	93
1976 ASM <sup>9</sup>	(NA)	(NA)	(NA)	9.1	54.8	8.2	14.8	40.8	107.1	123.0	225.4	2.2	29.0	(NA)	(NA)
1975 ASM <sup>9</sup>	(NA)	(NA)	(NA)	8.6	52.4	7.7	13.7	38.5	95.4	119.4	220.3	4.1	22.5	(NA)	(NA)
1974 ASM <sup>9</sup>	(NA)	(NA)	(NA)	9.9	51.5	8.2	15.2	35.7	111.6	128.3	236.9	1.8	29.2	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	9.2	48.6	7.8	14.2	33.6	92.1	117.3	211.7	.6	25.0	(NA)	(NA)
1972 Census	171	179	110	10.0	50.0	8.5	15.3	36.2	92.5	111.5	202.8	2.0	28.8	93	97
						INDUS	STRY 238	5, WATER	PROOF OUT	ERWEAR					
1987 Census	60	67	39	6.4	85.5	5.3	9.5	60.9	172.5	162.5	333.0	3.2	53.8	91	86
1986 ASM	(NA)	(NA)	(NA)	8.1	93.4	7.1	12.5	71.6	159.2	188.3	360.5	2.7	66.4	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	8.3	95.6	7.3	12.6	75.5	182.9	193.7	386.1	5.0	77.4	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	9.1	107.6	7.9	14.4	81.8	241.7	208.3	439.3	4.0	76.5	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	9.0	95.1	7.7	13.6	71.4	247.2	213.7	449.5	3.7	63.5	(NA)	(NA)
1982 Census	98	112	76	9.3	101.1	8.0	13.9	74.5	246.0	205.8	449.2	4.6	51.8	89	88
1981 ASM <sup>9</sup>	(NA)	(NA)	(NA)	7.0	68.3	5.7	13.2	45.2	188.1	190.6	377.5	4.1	55.1	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	11.3	102.3	9.8	16.4	79.5	216.7	163.3	376.5	3.6	49.8	(NA)	(NA)
1979 ASM <sup>9</sup>	(NA)	(NA)	(NA)	10.7	91.0	9.0	16.0	63.0	198.0	156.4	357.4	2.4	50.7	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	12.0	91.5	10.4	18.6	67.3	191.9	184.1	373.7	1.6	59.5	(NA)	(NA)
1977 Census	155	167	105	12.0	89.4	10.1	17.9	61.6	194.4	157.4	348.8	5.6	59.6	91	90
1976 ASM	(NA)	(NA)	(NA)	11.0	71.7	9.0	16.0	48.3	160.3	186.6	338.7	1011.6	61.3	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	10.9	70.9	9.0	15.6	48.2	142.9	170.1	315.6	3.0	51.1	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	13.3	74.9	11.1	18.6	52.3	177.2	171.4	343.5	102.1	58.3	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	15.0	86.9	12.9	23.3	65.9	173.5	168.7	336.1	107.1	59.9	(NA)	(NA)
1972 Census	236	257	164	15.4	86.4	13.2	23.5	62.6	168.8	164.6	332.1	2.4	47.1	(NA)	94
					INI	DUSTRY	2386, LEA	THER AN	D SHEEP-LIN	ED CLOTHI	NG				
1987 Census	130	131	32	2.1	33.8	1.7	2.9	22.4	92.1	110.3	201.8	.9	30.9	96	97
1986 ASM <sup>9</sup>	(NA)	(NA)	(NA)	1.7	29.8	1.3	2.3	19.6	56.0	102.6	161.4	10,4	35.8	(NA)	(NA)
1985 ASM <sup>9</sup>	(NA)	(NA)	(NA)	2.0	31.0	1.5	2.8	22.1	58.3	107.5	164.3	10,8	38.1	(NA)	(NA)
1984 ASM <sup>9</sup>	(NA)	(NA)	(NA)	2.9	39.0	2.4	4.2	28.1	84.9	113.6	194.4	101.1	39.8	(NA)	(NA)
1983 ASM <sup>9</sup>	(NA)	(NA)	(NA)	3.5	47.4	3.0	5.4	35.1	91.8	118.3	212.8	10,4	39.7	(NA)	(NA)
1982 Census	186	186	52	4.3	48.9	3.6	6.4	36.4	95.7	122.9	221.3	.9	40.2	92	94
1981 ASM <sup>9</sup>	(NA)	(NA)	(NA)	7.5	64.1	6.8	11.4	49.6	103.4	105.0	203.4	2.2	43.0	(NA)	(NA)
1980 ASM <sup>9</sup>	(NA)	(NA)	(NA)	8.0	63.5	7.2	11.8	48.6	100.8	119.1	215.3	.7	40.7	(NA)	(NA)
1979 ASM <sup>9</sup>	(NA)	(NA)	(NA)	7.0	56.3	6.3	10.4	44.3	93.4	120.6	210.4	1.1	34.0	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	5.8	50.2	5.1	8.2	38.2	74.1	145.9	222.9	2.6	32.2	(NA)	(NA)

# Table 1a. Historical Statistics for the Industry: 1987 and Earlier Years—Con.

[1987 industry definitions are the same as in the 1972/77 Standard Industriel Clessification (SIC) system. Excludes dete for euxiliaries. For meening of ebbreviations end symbols, see introductory text. For explanation of terms, see appendixes)

		Ail establ	ishments <sup>3</sup>	All em	ployees	Pro	duction wo	rkers						Re	tios
Year <sup>1</sup>	Com- panies² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Peyroll (million dollers)	Number (1,000)	Hours (millions)	Wages (million dollers)	Velue edded by menufec- ture <sup>4</sup> (million dollers)	Cost of materiels <sup>5</sup> (million dollers)	Velue of shipments (million dollers)	New capital expend- itures <sup>6</sup> (million dollars)	End-of- year inven- tories <sup>4</sup> (million dollars)	Spe- ciali- zation <sup>7</sup> (per- cent)	Cover- ege <sup>8</sup> (per- cent)
					INDUS	STRY 238	6, LEATH	ER AND S	HEEP-LINED	CLOTHING	-Con.				
1977 Census 1976 ASM <sup>9</sup> 1975 ASM <sup>9</sup> 1974 ASM <sup>9</sup> 1973 ASM 1972 Census	236 (NA) (NA) (NA) (NA) 185	239 (NA) (NA) (NA) (NA) 187	80 (NA) (NA) (NA) (NA)	6.7 9.7 10.1 11.1 6.9 7.0	54.7 69.5 73.8 61.0 41.2 40.8	5.9 8.5 8.9 10.1 6.0 6.3	10.4 15.5 16.3 17.1 11.1	41.1 53.8 58.5 49.4 29.6 30.7	94.8 116.9 119.2 107.4 74.9 82.1	122.2 140.7 162.1 135.1 101.6 93.0	214.1 259.8 280.9 238.3 176.5 172.1	1.6 2.8 2.1 3.1 1.5 2.5	32.3 30.2 32.6 34.2 21.0 20.8	97 (NA) (NA) (NA) (NA) 94	91 (NA) (NA) (NA) (NA) (NA)
							INDUSTF	Y 2387, A	PPAREL BEI	_TS					
1987 Census 1986 ASM 1985 ASM 1984 ASM	264 (NA) (NA) (NA) (NA)	265 (NA) (NA) (NA) (NA)	126 (NA) (NA) (NA) (NA)	10.5 8.8 9.5 11.1 11.1	151.0 116.5 120.5 136.6 138.2	7.8 6.9 7.5 8.9 8.7	14.8 12.9 13.8 17.3 17.1	85.6 70.4 70.7 80.2 81.4	339.5 293.7 278.3 299.8 318.2	294.5 229.2 223.4 252.5 245.3	627.8 521.0 504.9 551.7 568.8	3.1 <sup>10</sup> 2.5 <sup>10</sup> 2.2 <sup>10</sup> 5.6 <sup>10</sup> 6.9	111.2 84.6 84.1 101.9 92.5	93 (NA) (NA) (NA) (NA)	94 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM <sup>9</sup> 1980 ASM 1979 ASM	317 (NA) (NA) (NA) (NA)	319 (NA) (NA) (NA) (NA)	143 (NA) (NA) (NA) (NA)	11.7 10.6 9.5 10.0 9.7	137.1 128.9 102.5 93.8 82.8	9.2 8.6 7.7 8.0 7.9	17.2 19.2 17.5 15.9 13.6	81.5 81.5 67.0 59.0 49.2	305.4 306.0 235.7 213.9 176.2	250.6 250.0 195.3 180.4 178.8	556.5 534.9 422.4 388.4 349.9	8.3 2.8 <sup>10</sup> 1.6 <sup>10</sup> 2.9 2.7	92.8 89.4 71.6 65.0 60.3	89 (NA) (NA) (NA) (NA)	95 (NA) (NA) (NA) (NA)
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	281 (NA) (NA) (NA) (NA) 292	284 (NA) (NA) (NA) (NA) 297	119 (NA) (NA) (NA) (NA) 132	9.4 8.9 8.9 9.5 9.9 10.3	76.1 67.6 64.3 60.4 86.5 65.9	7.3 7.3 7.2 7.8 8.2 8.7	12.6 12.9 12.7 13.7 14.8 16.2	44.6 42.3 39.5 37.4 41.6 41.0	150.3 136.3 121.0 111.3 122.5 132.5	141.2 101.6 98.3 89.1 119.9 128.6	286.9 235.1 222.8 209.2 241.5 257.5	2.5 <sup>10</sup> 2.7 <sup>10</sup> 1.6 <sup>10</sup> 2.6 2.1 3.2	50.9 35.4 30.0 33.2 32.2 33.9	88 (NA) (NA) (NA) (NA) 94	96 (NA) (NA) (NA) (NA) 97
					l	NDUSTRY	/ 2389, Al	PPAREL A	ND ACCESS	ORIES, N.E.	c				
1987 Census 1986 ASM <sup>9</sup> 1985 ASM <sup>9</sup> 1984 ASM <sup>9</sup> 1983 ASM	332 (NA) (NA) (NA) (NA)	340 (NA) (NA) (NA) (NA)	105 (NA) (NA) (NA) (NA)	8.3 7.4 7.5 7.9 8.8	98.1 85.2 81.7 83.2 89.1	6.5 6.4 6.4 6.5 7.0	11.5 12.1 11.9 12.2 12.8	64.5 64.8 63.1 60.2 62.1	220.8 190.5 193.6 200.0 153.9	166.9 153.4 161.3 162.7 130.2	383.4 344.0 350.0 340.3 283.5	2.9 102.5 101.7 105.8 1.2	89.9 80.3 78.8 78.3 50.9	91 (NA) (NA) (NA) (NA)	67 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM <sup>9</sup> 1980 ASM 1979 ASM 1978 ASM	362 (NA) (NA) (NA) (NA)	369 (NA) (NA) (NA) (NA)	109 (NA) (NA) (NA) (NA)	8.7 10.8 11.4 10.1 8.7	86.2 106.8 98.6 86.1 65.0	7.1 9.1 9.3 7.8 7.5	12.6 16.6 16.4 13.9 12.3	59.5 74.9 67.5 55.7 48.1	152.7 206.2 173.1 151.7 119.4	125.6 148.1 164.7 137.7 101.8	279.2 346.6 332.7 283.8 218.7	3.6 7.7 <sup>10</sup> 4.3 <sup>10</sup> 4.1 5.9	49.5 55.3 54.1 45.1 47.1	91 (NA) (NA) (NA) (NA)	91 (NA) (NA) (NA) (NA)
1977 Census 1976 ASM9 1975 ASM9 1974 ASM9 1973 ASM 1972 Census	304 (NA) (NA) (NA) (NA) 238	312 (NA) (NA) (NA) (NA) 244	100 (NA) (NA) (NA) (NA) 87	8.1 8.3 7.6 9.4 7.0 7.3	56.7 58.6 48.8 54.6 36.6 35.3	6.7 6.8 6.4 8.2 6.0 6.2	11.6 11.8 10.6 14.1 10.7 10.9	38.6 37.2 32.5 40.5 25.2 24.5	109.7 109.3 99.3 103.8 57.0 59.7	96.4 109.3 81.1 99.4 67.3 58.0	199.0 215.4 176.6 196.2 124.3 116.8	4.2 2.8 .6 .8 3.0 2.8	45.7 54.7 48.0 46.0 23.4 22.5	90 (NA) (NA) (NA) (NA)	95 (NA) (NA) (NA) (NA) 84

In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvessed annuelly end may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for deta prior to 1972, see 1972 Census of Manufactures, vol. II, table 1a of the Industry

chapter.

2For the Census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

3Includes establishments with payroll at any time during year.

4Beginning with the 1982 Census of Manufactures, all respondents were requested to report their inventories at (the lower of) cost or market prior to edjustment to LIFO cost. This is a change from prior Censuses and annual surveys of manufactures in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, inventories and value added by manufacture are not comparable to prior-year data.

5Detailed data on materials consumed by type are shown in table 7.

5Detailed data on new machinery and equipment expenditures are provided in table 3c.

7Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments clessified in the industry.

5Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all menufacturing establishments, wherever classified.

5Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

10Estimates for new capital expenditures have associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of ecceptable reliability.

## Table 1b. Selected Operating Ratios for the Industry: 1987 and Earlier Years

[1987 industry definitions are the same as in the 1972/77 Standard Industrial Classification (SIC) system. Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Payroli per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of meterials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value edded per employee (dollars)	Payroll es percent of value added (percent)	Value edded per production worker hour (dollars)
				INDUS	TRY 2371, FUR	GOODS			
1987 Census 1996 ASM 1995 ASM 1984 ASM 1984 ASM 1982 Census	22 952 20 181 18 560 20 200 18 878 17 529	71 73 88 68 78	1 800 2 000 2 000 2 118 2 192 1 800	10.41 9.31 9.03 8.83 7.42	69 70 71 69 64	81 82 83 82 78	62 478 47 591 43 200 49 840 46 000	37 42 43 41 41 41	48.59 32.72 31.76 34.61 27.44 29.24
1981 ASM	17 529 18 119 15 500 13 104 13 230	74   78   77   79   79	1 875 1 735 1 684 1 877	7.47 7.63 6.97 6.80	88 73 73 73 73	86 86 86 86	38 143 35 477 30 646 29 769	42 42 44 43 44	26.70 26.46 22.98 22.33

# Table 1b. Selected Operating Ratios for the Industry: 1987 and Earlier Years—Con.

[1987 industry definitions are the same as in the 1972/77 Standard Industrial Classification (SIC) system. Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.

[1987 industry definitions text. For explanation of	are the same as in terms, see append	n the 1972/77 Standixes]	dard Industrial Clas	sification (SIC) syst	tem. Excludes dat	a for auxiliaries. Fo	or meaning of abbre	viations and symbol	ls, see introductory
Year	Payroli per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
				INDUSTR	Y 2371, FUR GC	OODS—Con.			
1977 Census	12 875 10 727 9 219 8 744 8 815 8 765	80 82 85 84 84 85	1 594 1 667 1 514 1 611 1 719 1 675	7.10 5.69 5.36 4.81 4.73 4.64 USTRY 2381, FA	71 68 66 62 67 62 ABRIC DRESS	85 82 81 80 83 80 AND WORK GLO	28 200 22 667 21 049 19 395 16 658 18 340	46 47 44 45 53 48	22.12 16.62 16.28 14.38 11.51
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	9 979 8 473 8 863 9 319 8 884	90 91 91 88 88	1 698 1 577 1 683 1 683 1 557	5.12 4.79 4.72 4.89 5.01	45 45 48 48 45	71 71 71 73 72	20 458 17 649 20 939 19 889 18 362	49 48 42 47 48	13.45 12.27 13.68 13.51 13.34
1982 Census	7 529 7 651 6 666 6 752 6 882	90 92 91 92 92	1 508 1 608 1 609 1 750 1 809	4.52 4.20 3.75 3.57 3.43	47 50 51 49 51	72 75 74 72 75	15 397 15 267 14 365 15 345 14 387	49 50 46 44 48	11.38 10.34 9.85 9.53 8.60
1977 Census	6 330 6 383 6 170 5 303 4 743 4 731	91 90 90 90 91 91	1 818 1 820 1 759 1 855 1 830 1 853	3.13 3.14 3.09 2.58 2.37 2.35	49 58 55 52 50 50	71 81 78 74 76 78	14 761 12 475 11 989 11 664 9 222 8 429	43 51 51 45 51 56	8.94 7.62 7.59 6.98 5.56 4.97
			II.	NDUSTRY 2384,	ROBES AND D	RESSING GOW	NS		
1987 Census	11 655 10 530 9 709 10 352 10 506	84 81 80 83 83	1 795 1 818 1 797 1 863 1 836	5.36 4.61 4.50 4.49 4.72	55 53 51 49 57	76 74 73 72 79	26 207 24 531 21 605 22 716 20 173	44 43 45 46 52	17.40 16.56 14.98 14.70 13.28
1982 Census	9 462 9 333 9 008 8 037 7 115	87 88 81 87 86	1 827 1 839 1 819 1 815 1 753	4.35 4.36 4.25 3.68 3.46	51 45 51 51 53	73 71 74 75 76	20 763 19 990 18 853 16 538 14 952	46 47 48 49 48	13.05 12.37 12.79 10.50 9.97
1977 Census	6 781 6 021 6 093 5 202 5 282 5 000	86 90 90 83 85 85	1 795 1 805 1 779 1 854 1 821 1 800	3.26 2.76 2.81 2.35 2.37 2.37	53 55 54 54 55 55	75 79 78 76 78 80	14 781 11 769 11 093 11 273 10 011 9 250	46 51 55 46 53	9.52 7.24 6.96 7.34 6.49 6.05
				INDUSTRY 238	5, WATERPRO	OF OUTERWEAR	3		
1987 Census	13 359 11 530 11 518 11 824 10 566	83 88 88 87 86	1 792 1 761 1 726 1 823 1 766	6.41 5.73 5.99 5.68 5.25	49 52 50 47 48	74 78 75 72 69	26 953 19 654 22 036 26 560 27 467	50 59 52 45 38	18.16 12.74 14.52 16.78 18.18
1982 Census	10 870 9 757 9 053 8 504 7 625	86 81 87 84 87	1 738 2 316 1 673 1 778 1 788	5.36 3.42 4.85 3.94 3.62	46 50 43 44 49	68 69 71 69 74	26 452 26 871 19 177 18 505 15 992	41 36 47 46 48	17.70 14.25 13.21 12.38 10.32
1977 Census	7 450 6 518 6 504 5 631 5 793 5 610	84 82 83 83 86 86	1 772 1 778 1 733 1 676 1 806 1 780	3.44 3.02 3.09 2.81 2.83 2.66	45 55 54 50 50 50	71 76 76 72 76	16 200 14 573 13 110 13 323 11 567 10 961	46 45 50 42 50 51	10.86 10.02 9.16 9.53 7.45 7.18
			INDU	STRY 2386, LEA	THER AND SH	EEP-LINED CLO	THING		
1987 Census	16 095 17 529 15 500 13 448 13 542	81 76 75 83 86	1 706 1 769 1 867 1 750 1 800	7.72 8.52 7.89 6.69 6.50	55 64 65 58 56	71 82 84 78 78	43 857 32 941 29 150 29 276 26 229	37 53 53 46 52	31.76 24.35 20.82 20.21 17.00
1982 Census	11 372 8 546 7 937 8 042 8 655	84 91 90 90 88	1 778 1 676 1 639 1 651 1 608	5.69 4.35 4.12 4.26 4.66	56 52 55 57 65	78 83 85 84 88	22 256 13 787 12 600 13 343 12 776	51 62 63 60 68	14.95 9.07 8.54 8.98 9.04
1977 Census	8 164 7 164 7 306 5 495 5 971 5 828	88 88 88 91 87 90	1 763 1 824 1 831 1 693 1 850 1 841	3.95 3.47 3.59 2.89 2.67 2.65	57 54 58 57 58 54	83 81 84 82 81 78	14 149 12 052 11 802 9 676 10 855 11 729	58 59 62 57 55 50	9.12 7.54 7.31 6.28 6.75 7.08

# Table 1b. Selected Operating Ratios for the Industry: 1987 and Earlier Years-Con.

[1987 industry definitions are the same as in the 1972/77 Standard Industrial Classification (SIC) system. Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

text. Tot explanation of	torrio, see append	incoj.							
Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
				INDUSTR	RY 2387, APPAF	REL BELTS			
1987 Census	14 381	74	1 897	5.78	47	71	32 333	44	22.94
1986 ASM	13 238	78	1 870	5.46	44	66	33 375	40	22.77
1985 ASM	12 684	79	1 840	5.12	44	68	29 295	43	20.17
1984 ASM	12 306	80	1 944	4.64	46	71	27 009	46	17.33
1983 ASM	12 450	78	1 966	4.76	43	67	28 667	43	18.61
1982 Census	11 717	79	1 870	4.74	45	70	26 103	45	17.76
1981 ASM	12 160	81	2 233	4.24	47	71	28 868	42	15.94
1980 ASM	10 789	81	2 273	3.83	46	71	24 811	43	13.47
1979 ASM	9 380	80	1 988	3.71	46	71	21 390	44	13.45
1978 ASM	8 536	81	1 722	3.62	51	75	18 165	47	12.96
1977 Census	8 095	78	1 726	3.54	49	76	15 989	51	11.93
	7 595	82	1 767	3.28	43	72	15 315	50	10.57
	7 224	81	1 764	3.11	44	73	13 596	53	9.53
	6 357	82	1 756	2.73	43	71	11 716	54	8.12
	6 717	83	1 805	2.81	50	77	12 374	54	8.28
	6 398	84	1 862	2.53	50	76	12 864	54	8.18
			IND	USTRY 2389, A	PPAREL AND A	CCESSORIES, I	N.E.C.		
1987 Census	11 819	78	1 769	5.61	44	69	26 602	44	19.20
	11 513	86	1 891	5.36	45	69	25 743	45	15.74
	10 893	85	1 859	5.30	46	69	25 813	42	16.27
	10 531	82	1 877	4.93	48	72	25 316	42	16.39
	10 125	80	1 829	4.85	46	77	17 489	58	12.02
1982 Census	9 908	82	1 775	4.72	45	76	17 552	56	12.12
1981 ASM	9 888	84	1 824	4.51	43	74	19 093	52	12.42
1980 ASM	8 649	82	1 763	4.12	50	79	15 184	57	10.55
1979 ASM	8 524	77	1 782	4.01	49	79	15 020	57	10.91
1978 ASM	7 471	86	1 640	3.91	47	76	13 724	54	9.71
1977 Census	7 000	83	1 731	3.33	48	77	13 543	52	9.46
	7 060	82	1 735	3.15	51	78	13 169	54	9.26
	6 421	84	1 656	3.07	46	74	13 066	49	9.37
	5 808	87	1 720	2.87	51	78	11 043	53	7.36
	5 228	86	1 783	2.36	54	84	8 143	64	5.33
	4 835	85	1 758	2.25	50	80	8 178	59	5.48

Note: For qualifications of data, see footnotes on table 1a.

# Table 2. Industry Statistics for Selected States: 1987 and 1982

[Excludes data for auxiliaries. States with 150 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

							198	7						1982
		All estab	lishments	All em	ployees	Pro	duction wo	rkers				Name		
Industry and geographic area	E1	Total (no.)	With 20 employ- ees or more (no.)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employ- ees <sup>2</sup> (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2371, FUR GOODS														
United States	E2	380	17	2.1	48.2	1.5	2.7	28.1	131.2	292.6	422.6	1.2	3.4	131.6
New York	E2	334	13	1.7	41.1	1,1	2.1	23.1	110.4	263.2	373.2	(D)	3.0	119.5
INDUSTRY 2381, FABRIC DRESS AND WORK GLOVES														
United States	_	82	58	4.8	47.9	4.3	7.3	37.4	98.2	80.8	180.8	1.5	6.8	104.7
Alabama Georgia Illinois Mississippi New York	E1 E1 E3	2 5 4 11 12	2 4 3 9 4	BB .2 AA EE AA	(D) 2.0 (D) (D) (D)	(D) .2 (D) (D) (D)	(D) 3 (D) (D) (D)	(D) 1.4 (D) (D) (D)	(D) 3.2 (D) (D) (D)	(D) 2.5 (D) (D) (D)	(D) 5.7 (D) (D) (D)	(D) (Z) (D) (D) (D)	CC .4 (NA) EE .3	(D) 2.7 (NA) (D) 11.5
North Carolina	-	8 3 1 3 5	7 2 1 3 4	8. AA AA AA	7.8 (D) (D) (D) (D)	.6 (D) (D) (D) (D)	1.1 (D) (D) (D) (D)	5.2 (D) (D) (D) (D)	15.9 (D) (D) (D) (D)	13.7 (D) (D) (D) (D)	30.1 (D) (D) (D) (D)	(D) (D) (D) (D) (D)	1.6 BB .5 AA (NA)	15.9 (D) 4.7 (D) (NA)

# Table 2. Industry Statistics for Selected States: 1987 and 1982—Con.

[Excludes dete for euxilleries. Stete	s with	150 emp	loyees or	more ere s	hown. For r	meening of	ebbrevietic		bols, see intro	ductory text.	For explenation	n of terms, s		1982
		All establ	lishments	All em	ployees	Pro	duction wo							
Industry and geogrephic eree	E1	Totel (no.)	With 20 employ- ees or more (no.)	Number <sup>2</sup> (1,000)	Peyrolt (million dollars)	Number (1, <b>0</b> 00)	Hours (millions)	Weges (million dollers)	Velue edded by manufac- ture (million dollers)	Cost of materials (million dollars)	Velue of shipments (million dollers)	New cepital expend- itures (million dollers)	Ali employ- ees <sup>2</sup> (1,000)	Value edded by menufec- ture (million dollars)
INDUSTRY 2384, ROBES AND DRESSING GOWNS														
United States	-	98	74	8.7	101.4	7.3	13.1	70.2	228.0	<b>278.</b> 3	<b>50</b> 2.6	3.3	9.3	193.1
Alabeme Celifornie Floride Georgia Meine	1 1 1 1	6 10 3 3 1	5 6 3 1	.4 EE .3 .3 AA	3.7 (D) 4.1 3.3 (D)	.4 (D) .3 .3 (D)	8 (D) 5.5 (D) 5.5 (D)	3.3 (D) 3.3 2.5 (D)	6.6 (D) 9.6 8.8 (D)	.6 (D) 17.4 7.7 (D)	7.4 (D) 26.7 14.4 (D)	(D) (D) (D) (D)	(NA) .8 BB .4 AA	(NA) 18.4 (D) 6.4 (D)
Michigen		1 2 24 4 10	1 2 13 4 8	AA BB 1.5 CC .6	(D) (D) 23.0 (D) 6.3	(D) (D) 1.2 (D) .5	(D) (D) 2.1 (D) .9	(D) (D) 13.4 (D) 5.5	(D) (D) 58.4 (D) 13.1	(D) (D) <b>9</b> 7.0 (D) 3.7	(D) (D) 155.1 (D) 16.6	(D) (D) (D) 1.	BB BB 1.9 EE .3	(D) (D) 67.0 (D) 2.4
South Caroline Tennessee Virginie West Virginia	1111	7 9 2 2	7 9 2 2	1.0 1.1 AA AA	11.5 12.9 (D) (D)	.8 .9 (D) (D)	1.7 1.4 (D) (D)	8.2 8.0 (D) (D)	23.6 30.2 (D) (D)	9.8 47.4 (D) (D)	33.1 77.1 (D) (D)	(D) (D) (D) (D)	1.3 .7 (NA) (NA)	30.7 7.2 (NA) (NA)
INDUSTRY 2385, WATERPROOF OUTERWEAR														
United States	-	67	39	6.4	85.5	5.3	9.5	60.9	172.5	162.5	333. <b>0</b>	3.2	9.3	246.0
Alabeme Marylend Massachusetts New Jersey New York Ohio Tennessee Virginia Wisconsin	11111111	1 6 5 7 11 2 1 2 2	1 6 3 5 7 1 1 2 2	BB EE CC CC BB BB BB BB AA	(D) (D) (D) (D) (D) (D) (D) (D)		00000 00000	000000000000000000000000000000000000000	(D) (D) (D) (D) (D) (D) (D) (D)	000000000000000000000000000000000000000	000000000000000000000000000000000000000	(D) (D) (D) (D) (D) (D) (D) (D)	CC FF 1.5 5.6 (NA) (NA) BB AA	(D) (D) 22.4 11.9 23.3 (NA) (NA) (D)
INDUSTRY 2386, LEATHER AND SHEEP-LINED CLOTHING														
United States  Californie  New Jersey  New York		131 34 6 45	32 7 3 10	2.1 .4 BB CC	33. <b>8</b> 6.2 (D) (D)	1.7 .3 (D) (D)	2.9 .6 (D) (D)	22.4 4.3 (D) (D)	<b>92.1</b> 18.7 (D) (D)	110.3 17.5 (D) (D)	201.8 36.1 (D) (D)	.9 (D) (D) (D)	4.3 .6 CC 1.1	95.7 23.0 (D) 24.3
INDUSTRY 2387, APPAREL BELTS														
United States	-	265	126	10.5	151.0	7.8	14.8	<b>85</b> .6	339.5	294.5	627.8	3.1	11.7	305.4
Arizona Celifornia Connecticut Illinois Massachusetts		1 32 5 4 6	1 17 2 2 4	AA 1.2 CC BB BB	(D) 16.8 (D) (D) (D)	(D) (D) (D)	(D) 1.6 (D) (D) (D)	(D) 9.7 (D) (D) (D)	(D) 37.6 (D) (D) (D)	(D) 23.7 (D) (D) (D)	(D) 60.8 (D) (D)	00000	(NA) 1.1 CC BB .6	(NA) 25.6 (D) (D) 17.9
New Jersey		11 132 5 13 18	5 65 3 6 11	.4 4.8 AA .6 EE	4.9 61.3 (D) 8.0 (D)	.3 3.6 (D) .5 (D)	.5 6.7 (D) .9 (D)	2.9 39.1 (D) 5.7 (D)	14.9 124.3 (D) 17.3 (D)	13.0 124.8 (D) 15.4 (D)	27.4 248.2 (D) 33.2 (D)	(X) (D) (D) 1 (D)	.5 5.1 .2 .7 1.3	15.8 119.4 6.5 19.4 28.9
INDUSTRY 2389, APPAREL AND ACCESSORIES, N.E.C.										:				
United States		340	105	8.3	98.1	6.5	11.5	64.5	220.8	166.9	383.4	2.9	8.7	152.7
Alabama Californie Florida Georgie Illinois	E3 E2 E1	11 65 15 5 16	4 17 6 3 5	AA CC .4 AA CC	(D) (D) 4.7 (D) (D)	90° (50°)	(D) (D) .7 (D) (D)	(D) (3) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D	(D) (D) 6.3 (D) (D)	(D) (D) 3.7 (D) (D)	(D) 9.9 (D) (D)	00000	(NA) 1.0 BB AA .8	(NA) 13.9 (D) (D) 17.2
Missouri	E1	5 20 63 11 24	3 5 14 4 13	AA .3 1.2 BB 1.5	(D) 4.2 13.9 (D) 21.1	(D) .2 1.0 (D) 1.2	(D) .4 1.6 (D) 2.2	(D) 2.7 10.2 (D) 14.3	(D) <b>8.0</b> 26.0 (D) 51.1	(D) 6.2 27.2 (D) 44.2	(D) 14.4 53.1 (D) 94.5	(D) .1 (D) (D) .9	(NA) .5 1.6 .6 1.3	(NA) 5.1 35.1 9.0 25.9
Rhode Island South Ceroline Tennessee Texas Virginia	- E3 E2 -	2 8 8 1 <b>8</b> 6	1 4 4 5	AA BB .2 BB BB	(D) (D) 1.2 (D) (D)	(D) (D) (D) (D) (D)	(D) (D) .2 (D) (D)	(D) (D) (D) (D)	(D) (D) 2.3 (D) (D)	(D) (D) 2.2 (D) (D)	(D) (D) <b>4.5</b> (D) (D)	(D) (D) (D) (D) (D)	(NA) BB (NA) .2 AA	(NA) (D) (NA) 2.9 (D)

# Table 2. Industry Statistics for Selected States: 1987 and 1982—Con.

Note: For qualifications of date, see footnotes on teble 1e.

1Payroll end sales data for some small single-unit companies with up to 20 employees (cutoff varied by Industry) were obteined from edministrative records of other Government egencies rather than from census report forms. These dete were then used in conjunction with industry evereges to estimate the items shown for these small establishments. This technique wes also used for a small number of other establishments whose reports were not received at the time date were tabulated. The following symbols are shown for those States where estimated value of shipments data based on administrative-record data ecount for 10 percent or more of figure shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

\*Statistics for some producing States have been withheld to evoid disclosing date for individual companies. However, for States with 150 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA-150 to 249 employees; BB-250 to 499 employees; CC-500 to 999 employees; EE-1,000 to 2,499 employees; FF-2,500 employees or more.

# Table 3a. Summary Statistics for the Industry: 1987

[For meaning of abbrevietions end symbols, see introductory text. For explenetion o	terms, see epper	ndixes]							
						Ro		ressing gowns 2384)	
Item	Fur goods (SIC 2371)	dres	Febric ss and work gloves 2381)		Total		Manu- facturers (SIC 2384-11)	Jobbers (SIC 2384-22)	Contractors (SIC 2384-33)
Companiesnumber_	380		62		85		(1)	(1)	(1)
All establishments       do.         With 1 to 19 employees       do.         With 20 to 99 employees       do.         With 100 employees or more       do.	380 363 17	1	82 24 45 13		96 22 49 25		45 10 19 16	9 4 3 2	27
Employment and labor costs:  Employees	2.1 54.2 48.2 5.9 3.6 2.4		4.8 57.4 47.9 9.5 4.9 4.6		8.7 116.7 101.4 15.3 9.8 5.6		5.3 73.4 63.8 9.7 5.9 3.7	.6 10.6 9.4 1.3 .8 .5	2.9 32.7 28.2 4.4 3.0 1.4
Production workers:       Average for year       1,000.         March       do.         May       do.         August       do.         November       do.	1.5 1.4 1.5 1.5 1.5		4.3 4.2 4.2 4.3 4.3		7.3 7.4 7.2 7.3 7.4		4.3 4.3 4.3 4.3 4.4	.3 .4 .4 .4	2.6 2.7 2.6 2.7 2.6
Hours	2.7 .7 .7 .7		7.3 1.8 1.8 1.8 1.9		13.1 3.2 3.3 3.3 3.3		7.7 1.9 1.9 1.9 1.9	.6 .1 .2 .2 .1	4.7 1.2 1.2 1.2 1.2
Wagesmil dol	28.1		37.4		70.2		42.2	4.0	23.9
Value added by manufacture         do_           Cost of materials²         do_	131.2		98.2 80.8		228.0 278.3		161.9 195.1	19.9 76.0	46.3
Materials, parts, containers, etc., consumed³         do.           Resales         do.           Fuels         do.           Purchased electricity         do.           Contract work         do.	245.5 11.2 .4 1.2 34.3		72.9 5.6 .7 1.2		206.9 25.7 .9 3.3 41.5		146.8 24.2 .5 1.7 21.9	54.7 1.5 .1 .2 19.6	5.4 (Z) .3 1.3
Ouantity of electric energy used for heat and power: Purchased	13.8		21.8 (Z)		57.0		29.3	2.6	25.1
Total value of shipments         mil dol.           Primary products         do.           Secondary products         do.           Miscellaneous receipts, total         do.           Value of resales         do.           Contract receipts         do.           Other miscellaneous receipts         do.	422.6 398.8 1.0 22.7 14.8 7.0		180.8 161.6 7.6 11.6 8.0 3.4		502.6 367.4 45.6 89.7 38.0 51.7 (Z)		354.1 284.9 30.3 38.9 36.4 2.5 (Z)	94.6 80.9 12.2 1.5 1.5	53.9 1.6 3.0 49.2 (Z) 49.2 (Z)
Inventories by stage of fabrication:  Beginning of 1987 mil dol Finished goods do Work in process do Materials and supplies do	78.2 38.8 13.7 25.7		32.6 13.7 5.0 14.0		64.3 29.3 11.4 23.6		44.7 19.4 8.1 17.3	14.7 6.9 2.5 5.3	4.9 3.0 .8 1.1
End of 1987         do-           Finished goods         do-           Work in process         do-           Materials and supplies         do-	79.6 39.3 14.5 25.8		32.6 12.0 4.9 15.6		67.1 30.8 13.6 22.7		46.7 21.1 9.2 16.4	16.0 7.1 3.6 5.4	4.4 2.6 .8 .9
Primary product specialization ratiopercent_ Coverage ratiodo_	99 99		96 84		89 73		(NA) (NA)	(NA) (NA)	(NA) (NA)
		Waterprod (SIC	of outer 2385)	wear					
ltem	Total	Manu- facturers (SIC 2385-11)		Jobbers (SIC 2385-22)		Con- actors (SIC 85-33)	Leather sheep-li clott (SIC 23	ined Apparel be	
Companies         number           All establishments         do.           With 1 to 19 employees         do.           With 20 to 39 employees         do.           With 100 employees or more         do.	60 67 28 21 18	(1) 44 19 11		(1) 7 5 2 -		(1) 16 4 8 4		131 2 99 1 29	64 332 65 340 39 235 99 90 27 15
Employment and labor costs:  Employees	6.4 104.8 85.5 19.3 9.3 10.0	5.3 90.4 73.1 17.3 8.1 9.1		.1 2.6 2.3 .2 .2 (Z)		1.0 11.8 10.1 1.8 .9		39.1 18 <sup>3</sup> 33.8 15 <sup>3</sup> 5.3 30 3.1 14	

# Table 3a. Summary Statistics for the Industry: 1987—Con.

[For meening of abbreviations and symbols, see introductory text. For explanation of terms, see eppendixes]

		Waterproof (SIC	f outerweer 2385)				
ltem	Total	Menu- fecturers (SIC 2385-11)	Jobbers (SIC 2385-22)	Con- tractors (SIC 2385-33)	Leather and sheep-lined clothing (SIC 2386)	Apparel belts (SIC 2387)	Apparel and eccessories, n.e.c. (SIC 2389)
Production workers:         1,000_           Average for yeer         1,000_           Merch         do_           May         do_           August         do_           November         do_	5.3 5.4 5.3 5.2 5.3	4.3 4.4 4.4 4.3 4.3	.1 .1 .1 .1	.9 .9 .9	1.7 1.6 1.6 1.7 1.7	7.8 7.7 7.6 7.8 7.9	6.5 6.5 6.6 6.4 6.3
Hours millions _	9.5 2.4 2.4 2.3 2.4	7.8 1.9 2.0 1.9 2.0	.1 (Z) (Z) (Z) (Z)	1.6 .4 .4 .4	2.9 .7 .7 .8 .8	14.8 3.6 3.7 3.8 3.7	11.5 2.8 3.0 2.8 2.9
Wagesmil dol	60.9	51.2	.9	8.9	22.4	85.6	64.5
Velue added by manufacture do	172.5	147.4	6.5	18.6	92.1	339.5	220.8
Cost of materials²         do-           Meteriels, perts, containers, etc., consumed³         do-           Resales         do-           Fuels         do-           Purchesed electricity         do-           Contrect work         do-	162.5 132.5 17.2 1.2 2.3 9.4	138.8 113.6 17.1 .9 1.9 5.2	13.0 8.8 (Z) (Z) (Z) (Z) 4.1	10.6 10.0 (Z) .2 .3	110.3 82.4 13.3 .3 .7 13.6	294.5 225.7 42.5 .8 2.9 22.6	166.9 137.3 13.8 1.0 1.9
Quantity of electric energy used for heat and power: Purchesed mil kWh_ Genereted less sold do	35.1	28.1	.6	6.4	8.6	39.3	31.8
Totel value of shipments	333.0 273.9 27.8 31.4 31.1 .1	284.5 225.7 27.8 31.1 31.0 -	19.5 19.4 - (Z) (Z) - -	29.0 28.8 (Z) .2 (Z) .1	201.8 169.8 7.9 24.2 20.6 3.5 (Z)	627.8 513.6 39.6 74.5 61.4 13.1 (Z)	383.4 308.7 29.6 45.0 22.9 21.8
Inventories by stage of fabrication:  Beginning of 1987mil dol Finished goodsdo  Work in processdo  Materials end suppliesdo	50.6 23.1 12.1 15.4	47.6 21.9 11.5 14.2	1.1 .5 .1 .5	2.0 .7 .5 .7	30.3 15.7 5.1 9.5	96.3 42.7 10.3 43.3	81.7 48.6 9.1 24.1
End of 1987       do-         Finished goods       do-         Work in process       do-         Materials and supplies       do-	53.8 24.5 12.6 16.7	50.3 23.4 11.6 15.2	1.2 .5 .1 .6	2.3 .6 .9	30.9 15.9 5.4 9.5	111.2 46.9 12.4 51.9	89.9 52.9 9.1 27.9
Primary product specialization retiopercent_ Coverage ratiodo	91 86	(NA) (NA)	(NA) (NA)	(NA) (NA)	96 97	93 94	91 67

Note: For qualifications of date, see footnotes on table 1e.

### Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements, Table 3b. Depreciation, and Rental Payments: 1987

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

ltem	Fur goods (SIC 2371)	Fabric dress and work gloves (SIC 2381)	Robes and dressing gowns (SIC 2384)	Waterproof outerwear (SIC 2385)	Leather and sheep-lined clothing (SIC 2386)	Apparel belts (SIC 2387)	Apparel and accessories, n.e.c. (SIC 2389)
Gross book velue of depreciable assets: Total:							
Beginning of year	9.7	22.5	39.4	55.3	12.5	63.1	56.1
New capital expenditures'	1.2	1.5	3.3	3.2	.9	3.1	2.9
Used capital expenditures	ا ا ا	1.0	.4 1.6	3.1	.2	3.2	3.2
End of year	10.7	23.6	41.5	55.5	13.4	63.4	56.7
Buildings and other structures:		20.0	41.0	00.0			
Beginning of year	1.7	8.2	14.8	23.7	5.4	22.5	26.4
New capital expenditures	(D)	(D)	(D)	1.0	(D)	(D)	(D)
Used capital expenditures	(D)	(D) (D)	(D) (D)	(Z)	(D)	(D)	(D) (D) 2.1
Hetirements	(Z)	.4	.2	.1	1	.6	2.1
End of year	1.9	8.0	15.5	24.6	5.5	22.6	25.3
Machinery and equipment:	8.0	440	04.0	31.6	7.1	40.5	29.7
Beginning of year	0.0	14.3	24.6	2.2	(0)	40.5 (D)	(D)
Used capital expenditures		(D) (D)	(D) (D) 1.3	2.2	(3)	(6)	(D)
Used capital expenditures	3	(6)	1.3	3.0	(5)	(D) 2.7	1.1
End of year	8.7	15.5	25.9	31.0	7.9	40.8	31.5
Depreciation cherges during 1987:	1.1	1.6	3.2	6.8	1.1	5.7	1.4
Total  Buildings end other structures	'31	1.6	.9	1.7	1.1	1.2	1.4
Machinery and equipment	1.0	1.0	2.3	5.1	.2	4.5	3.2
	. 1.0	1.0 1	2.0	0.11	.0	7.0	0.2

¹Data for 1987 indicate a significant decrease in "jobber" activity compared to 1982. Some of this decline can be attributed to increased use of offshore sewing plants. In addition, some establishments that have both jobbing and manufacturing may have been classified es jobbers in 1982 and manufacturers in 1987.

²Data on purchased services for the repair of buildings and machinery and for communication services are not included in cost of materials, etc., but are shown in table 3c.
³Data on materials consumed by type are shown in table 7. Data on emount purchased or transferred from foreign sources are shown in table 3c.

# Table 3b. Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements, Depreciation, and Rental Payments: 1987—Con.

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Fur goods (SIC 2371)	Fabric dress and work gloves (SIC 2381)	Robes and dressing gowns (SIC 2384)	Waterproof	Leather and sheep-lined clothing (SIC 2386)	Apparel belts (SIC 2387)	
Rental payments: Total	5.0	.7	3.7	2.1	1.6	7.6	4.6
	3.0	.3	2.2	1.0	1.1	3.9	1.9
	2.1	.4	1.5	1.1	.5	3.7	2.7

Note: Retirements and depreciation data for establishments not included in the ASM sample were extrapolated from the historical ratio of retirements or depreciation to assets. These ratios were developed at the industry level.

Fur goods

Fabric dress and work

Robes and dressing

# Table 3c. Supplemental Industry Statistics Based on Sample Estimates: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

	Fur g (SIC 2	oods 2371)	(S	gloves IC 2381)	gov (SIC	vns 2384)		of outerwear 2385)
Item	Amount (million dollars)	Relative standard error of estimate <sup>1</sup> (percent)	Amou (millio dollar	on estimate <sup>1</sup>	Amount (million dollars)	Relative standard error of estimate <sup>1</sup> (percent)	Amount (million dollars)	Relative standard error of estimate <sup>1</sup> (percent)
Purchased services:  Cost of purchased services for the repair of— Buildings and other structures— Response coverage ratio (percent)²————————————————————————————————————	000000000000000000000000000000000000000	888888888888	()	S) (X) S) (X) S) (X) S) (X) S) (X) S) (X)	(S) (S) (S) (S) (S) (S)	88888888888888888888888888888888888888	.2 73.5 .7 46.2 .7 72.2	(X) (X) (X)
New machinery and equipment expenditures  Automobiles, trucks, etc.  Computers and peripheral  All other  Adjustment ratio <sup>3</sup>	(S) (S) (S) (S) (S)	(X) (S) (S) (S) (X)	()	S) (X) (S) (S) (S) (S) (S) (S) (S) (X)	(S) (S) (S) (S) (S)	(X) (S) (S) (S) (X)	2.2 .1 .3 1.8 1.1	1
Cost of materials, components, parts, etc., used	245.5 (S) (S) (S)	(X) (S) (S) (X)	72 ( ( (	(X) (S) (S) (S) (S) (S) (X)	206.9 (S) (S) (S)	(X) (S) (S) (X)	132.5 9.2 123.2 1.2	16 2
	Leather and	sheep-lined o SIC 2386)	clothing	Appare (SIC	el belts 2387)	Appar	el and acces (SIC 238	
Item	Amo (mil dolla	unt lion e	Relative standard error of estimate <sup>1</sup> percent)	Amount (million dollars)	Rela stand erro estima (perce	ard r of ate <sup>1</sup>	Amount (million dollars)	Relative standard error of estimate <sup>1</sup> (percent)
Purchased services:  Cost of purchased services for the repair of— Buildings and other structures ————————————————————————————————————		(S) (S) (S) (S) (S) (S) (S)	(X) (X) (X) (X) (X) (X)	(S) (S) (S) (S) (S)		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(S) (D) (S) (S) (S) (S)	(X) (X) (X) (X) (X)
New machinery and equipment expenditures		(S) (S) (S) (S) (S) (S)	(X) (S) (S) (S) (X)	(S) (S) (S) (S) (S)		(X) (S) (S) (S) (X)	(S) (S) (S) (S) (S)	(X) (S) (S) (S) (X)
Cost of materials, components, parts, etc., used Materials purchased or transferred from foreign sources4 Materials purchased or transferred from domestic sources		2.4 (S) (S)	(X) (S) (S)	225.7 (S) (S)		(X) (S) (S)	137.3 (S) (S)	(X) (S) (S) (X)

For description of relative standard error of estimate, see Qualifications of the Data in appendixes.

Adjustment ratio3\_\_\_\_

Data on new machinery and equipment expenditures by type are provided in table 3c.

<sup>\*</sup>Measure of errient to which respondents reported each item. Derived for each item by calculating the ratio of weighted employment for those sample establishments that reported the specific inquiry to total employment for all establishments classified in industry. (See appendixes for explanation of sample weight.)

\*Detail has been adjusted upwards to account for nonresponse. Inverse of the ratio shown represents a measure of the response to the inquiry. (See appendixes for further explanation.)

\*Data may understate the true cost of imported parts, components, and supplies since some respondents do not know the origin of these materials. Includes cases where materials were purchased from secondary suppliers or where they were transferred from company-operated warehouses or other distribution points. Direct purchases from foreign suppliers and importers by domestic manufacturing establishments are believed to be reported accurately.

# Table 4. Industry Statistics by Employment Size of Establishment: 1987

[For meaning of abbreviations and symbols, see into	oduct	ory text. F	ı	-			el e an			_		
		All	All em	ployees	Pro	duction wor	rkers	Value added by			New capital	End-of- year
Industry and employment size class	E¹	estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	expend- itures (million dollars)	inven- tories (million dollars)
INDUSTRY 2371, FUR GOODS												
Total	<b>E</b> 2	380	2.1	48.2	1.5	2.7	28.1	131.2	292.6	422.6	1.2	<b>7</b> 9.6
Establishments with an average of—  1 to 4 employees	E8 E2	240 69	.5 .5	8.6 10.0	.3 .3	.6 .6	5.6 6.0	19.6 27.9	52.9 74.4	72.4 102.2	(D)	11.3 21.9
5 to 9 employees 10 to 19 employees 20 to 49 employees	-	54	.7	17.0	.5	.9	9.9	38.9	90.0	129.3	.2	25.2
50 to 99 employees	-	16 1	(D)	12.6 (D)	(D)	(D)	6.6 (D)	44.9 (D)	75.3 (D)	118.6 (D)	. <u>.8</u> (D)	21.2 (D)
Covered by administrative records <sup>2</sup>	E9	249	.6	9.5	.4	.7	6.2	19.8	58.4	78.2	-	12.0
INDUSTRY 2381, FABRIC DRESS AND WORK GLOVES												
Total	-	<b>8</b> 2	4.8	47.9	4.3	7.3	37.4	98.2	80.8	180.8	1.5	32.6
Establishments with an average of-			(7)	0	(7)	(7)		1.0			(7)	
1 to 4 employees	E9 E7 E5	9 3	(Z) (Z) .2 .7 1.5	.3 .3 1.5	(Z) (Z)	(Z) (Z)	.2 .2 1.0	1.0 .9 4.4	.8 .8 3.0	1.8 1.7 7.5	(Z) (Z) (Z)	.4
20 to 49 employees	Ēĭ	12 23 22	.7	7.8 13.7	.6 1.4	1.0	5.5 11.3	13.5 30.5	15.0 21.7	29.0 52. <b>8</b>	.1	1.4 5.6
100 to 249 employees	-	10	2.4 (D)	24.2 (D)	2.1 (D)	2.3 3.7 (D)	19.2 (D)	47.9 (D)	39.5 (D)	<b>8</b> 7.9	.8 (D)	9.2 15.6 (D)
250 to 499 employees	-									(D)		
Covered by administrative records <sup>2</sup>	E9	20	.2	1.8	.2	.2	1.1	5.5	4.3	9.8	(Z)	1.9
INDUSTRY 2384, ROBES AND DRESSING GOWNS												
Total	-	96	8.7	101.4	7.3	13.1	<b>7</b> 0.2	228.0	278.3	502.6	3.3	67.1
Establishments with an average of-					_							
1 to 4 employees 5 to 9 employees	E1	5 6	(D)	<u>.8</u> (D) 2.7	( <u>Z)</u> (D)	(D)	(D)	2.9 (D)	15.8 (D)	18.7 (D)	( <u>Z)</u> (D)	2.2 (D) 2.2 13.0
10 to 19 employees 20 to 49 employees	E1 -	11 31	1.1	14.3	.1 .9	.2 1.6	1.6 9.3	8.1 29.3	9.0 63.3	17.1 91.9	.1 1.0	13.0
50 to 99 employees	-	18 18	1.4 3.1	17.6 30.9	1.2 2.6	2.2 4.4	12.0 22.5	45.5 79.5	47.7 95.3	93.0 173.9	.5 . <b>8</b>	26. <b>8</b>
250 to 499 employees 500 to 999 employees	-	6 1	2.9 (D)	35.0 (D)	2.5 (D)	4.6 (D)	24.2 (D)	62.6 (D)	47.2 (D)	108.0 (D)	. <u>9</u> (D)	13.1 (D)
Covered by administrative records <sup>2</sup>	E9	15	.2	1.4	.1	.2	1.0	3.5	2.8	6.3	(Z)	.9
INDUSTRY 2385, WATERPROOF OUTERWEAR												
Total	-	67	6.4	<b>8</b> 5.5	5.3	9.5	60.9	1 <b>7</b> 2.5	162.5	3 <b>33</b> .0	3.2	53.8
Establishments with an average of— 1 to 4 employees	E9	10	(7)	2	(7)	(7)		.5	4	.9	(D)	.1
5 to 9 employees	E4	5 13	(Z) (Z) .2 .5	.2 .7 4.0	(Z) (Z) .2	(Z) (Z) .3	.1 .5 3.0	.5 .5 9.0	2. <b>8</b> 9.5	4.4 1 <b>8</b> .6	(D) (Z) (Z) .1	.3 2.0
20 to 49 employees	E1	16 5	.5	6.9 5.0	.4 .3	.9 .5	5.0 5.0 2.9	12.5 10.5	14.0	26.1 34.3	.1	3.0 5.3
50 to 99 employees	-	9	1.3	16.8	1.2	2.0	13.0	30.4	24.7 26.0	55. <b>8</b>	.3	11.1
250 to 499 employees 500 to 999 employees	_	7 2	4.0 (D)	51.9 (D)	3.2 (D)	5.8 (D)	36.4 (D)	109.0 (D)	85.0 (D)	192.9 (D)	2.6 (D)	31.9 (D)
Covered by administrative records <sup>2</sup>	E9	27	.4	4.5	.4	.6	3.6	7.1	6.2	13.3	(Z)	1.9
INDUSTRY 2386, LEATHER AND SHEEP- LINED CLOTHING												
Total	-	131	2.1	33.8	1.7	2.9	22.4	92.1	110.3	201.8	.9	30.9
Establishments with an average of—									0.7	7.0	(7)	1.0
1 to 4 employees	E1	61 26	.1	1.5 2.7	3	.2 .3 .2	1.0 2.0	4.4 7.6	3.7 7.0	7. <b>8</b>   14.4	(Z) .1	1.6 2.8
10 to 19 employees		12 20	.2 .2 .6	1.8 7.9	.1 .5	.8	1.2 5.0	3.9 15.5	2.9 15.5	6.8 31.3	.1 .1	1.1 7.1
50 to 99 employees	_	9	.6 .5	9.2 10.7	.4 .4	.7 .8	5.9 7.4	35.5 25.4	43.2 38.0	7 <b>8</b> .2 63.3	.5 .2	7.1 7.2 11.0
Covered by administrative records <sup>2</sup>	E9	64	.2	1.9	.1	.2	1.2	4.7	3.7	8.4	(Z)	1.7
Soc feetnates at and of table				1.3	.,		1.2	7.7	0.7	0.41	(-)	

# Table 4. Industry Statistics by Employment Size of Establishment: 1987-Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

		All	All em	ployees	Pro	duction wo	rkers	Value added by			New capital	End-of-
Industry and employment size class	E¹	estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	expend- itures (million dollars)	year inven- tories (million dollars)
INDUSTRY 2387, APPAREL BELTS												
Total	-	265	10.5	151.0	7.8	14.8	85.8	33 <b>9.</b> 5	<b>294.</b> 5	627.8	3.1	111.2
Establishments with an average of—  1 to 4 employees	E8 E6	61 36 42 62 37 22 4 1	.1 .2 .6 1.9 2.5 3.4 1.7 (D)	2.0 3.2 8.1 25.1 35.2 52.4 25.1 (D)	.1 .2 .4 1.6 2.0 2.5 1.0 (D)	.2 .3 .8 2.8 3.8 5.0 2.0 (D)	1.0 1.6 4.7 16.8 21.5 29.5 10.5 (D)	4.9 7.3 17.7 57.3 78.8 106.8 66.8 (D)	4.1 5.2 16.3 35.7 63.8 110.9 58.5 (D)	9.0 12.5 34.0 92.1 141.9 215.1 123.2 (D)	(Z) (Z) .1 .4 .7 1.3 .5 (D)	1.5 2.2 4.6 14.8 23.1 39.6 25.4 (D)
ACCESSORIES, N.E.C.												
Total	E1	340	8.3	98.1	6.5	11.5	64.5	220.8	166.9	383.4	2.9	89.9
Establishments with an average of—  1 to 4 employees	E8 E7 E3 - - -	126 57 52 67 23 11 3	.2 .4 .7 2.1 1.7 1.6 1.5 (D)	2.9 4.1 9.3 27.0 17.5 20.8 16.6 (D)	.2 .3 .6 1.6 1.4 1.4 1.0 (D)	.3 .5 1.0 3.1 2.4 2.4 1.7 (D)	1.9 2.6 6.1 16.8 12.3 14.1 10.8 (D)	6.6 9.1 19.1 54.0 31.8 51.8 48.4 (D)	5.2 6.2 17.9 39.0 22.6 39.6 36.4 (D)	11.9 15.4 36.9 92.1 52.8 89.7 <u>84.6</u> (D)	(Z) .1 .1 1.2 .7 .3 .4 (D)	2.1 3.6 6.4 18.9 11.6 16.9 30.3
Covered by administrative records <sup>2</sup>	E9	164	.7	6.2	.6	.9	3.9	13.6	10.6	24.2	.1	4.7

Note: For qualifications of data, see footnotes on table 1a. Data shown as a (D) are included in underscored figures above.

employment-size classes shown.

# Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1987

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Indus- try or		A11	All em	ployees	Pr	oduction worl	kers	Value added by			New capital
prod- uct class code	Industry or primary product class	All estab- lish- ments (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	expend- itures (million dollars)
2371	Fur goods: All establishments in industry	380	2.1	48.2	1.5	2.7	28.1	131.2	292.6	422.6	1.2
2381	Fabric dress and work gloves: All establishments in industry	82	4.8	47.9	4.3	7.3	37.4	98.2	80.8	180.8	1.5
23813 23814	Establishments with this product class primary: Gloves and mittens made from purchased fabrics Gloves and mittens made from leather-and-fabrics	41	3.7	36.2	3.3	5.7	28.1	72.1	61.8	135.0	1.3
23814	combinations	17	.7	8.0	.6	1.1	6.6	17.7	14.2	32.6	.2
2384	Robes and dressing gowns: All establishments in industry	98	8.7	101.4	7.3	13.1	70.2	228.0	278.3	502.6	3.3
2385	Waterproof outerwear: All establishments in industry	67	6.4	85.5	5.3	9.5	60.9	172.5	162.5	333.0	3.2
23851 23859	Establishments with this product class primary: Raincoats and other waterproof outerwear Contract and commission receipts	32 10	5.6 .4	76.3 4.1	4.6 .4	8.2 .7	53.2 3.9	156.4 5.6	152.7 1.0	307.3 6.2	3.0 .1
2386	Leather and sheep-lined clothing: All establishments in industry	131	2.1	33.8	1.7	2.9	22.4	92.1	110.3	201.8	.9
2387	Apparel belts: All establishments in industry	285	10.5	151.0	7.8	14.8	85.6	339.5	294.5	627.8	3.1
23871 23872	Establishments with this product class primary:  Belts, leather	84 62	5.7 3.7	86.5 51.8	4.0 2.9	7.7 5.7	45.9 32.0	201.4 108.1	180.4 95.7	378.8 200.5	1.5 1.5
2389	Apparel and accessories, n.e.c.: All establishments in industry	340	8.3	98.1	8.5	11.5	64.5	220.8	166.9	383.4	2.9

Note: For qualifications of data, see footnotes on table 1a.

Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those employment-size classes where estimated data based on administrative-record data account for 10 percent or more of figures shown: E5—50 to 29 percent; E5—50 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E5—50 to 69 percent; E5—50

# Table 5b. Industry-Product Analysis—Value of Shipments and Primary Product Shipments and Specialization and Coverage Ratios for the Industry: 1987 and Earlier Census Years

[An esteblishment is essigned to en industry besed on shipment velues of products representing lergest emount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to en industry (primary), those considered primary to other industries (secondary), and receipts for ectivities such as merchandising or contract work. Columns A-D show this product pettern for en industry, and column E shows primary product pettern for en industry is shown in columns F-H and coverage retio is shown in column I. For meening of abbrevietions and symbols, see introductory text. For explanation of terms, see eppendixes

			Velu	ue of shipmer	nts		Veiue	of primery p	roduct ship	ments
industry end product group code	Industry and census yeer	Totel (million dollers)	Primery products (million doilers)	Secondary products (million dollers)	Miscel- laneous receipts (million dollers)	Primary product speciel- ization ratio col. B÷ col. B+C (percent)	Total made in all indus- tries (million dollars)	Made in this industry (million dollers)	Made in other indus- tries (million dollars)	Coverage ratio col. B ÷ col. F (percent)
		А	В	С	D	E	F	G	н	I.
2371	Fur goods	422.6 419.3 383.4	398.8 395.6 356.4	1.0 .2 1.7	22.7 23.5 25.3	99 99 99	399.2 397.9 358.5	398.8 395.6 356.4	.4 2.2 2.1	99 99 99
2381	Febric dress end work gloves 1987 1982 1977	180.8 208.4 312.5	161.6 175.8 255.1	7.6 22.5 26.1	11.6 10.1 31.3	96 89 91	192.4 242.8 305.1	161.6 175.8 255.1	30.7 67.0 50.0	84 73 84
2384	Robes and dressing gowns 1987 1982 1977	502.6 403.6 293.5	367.4 335.6 226.5	45.6 21.8 27.5	89.7 46.2 39.5	89 94 89	502.3 416.0 243.3	367.4 335.6 226.5	134.9 80.4 16.8	73 81 93
2385	Weterproof outerwear 1987 1982 1977	333.0 449.2 348.8	273.9 376.5 304.8	27.8 45.1 30.0	31.4 27.6 14.0	91 89 91	318.1 429.7 338.8	273.9 376.5 304.8	44.2 53.1 34.0	86 88 90
2386	Leather and sheep-lined clothing 1987 1982 1977	201.8 221.3 214.1	169.8 194.2 192.6	7.9 17.6 5.3	24.2 9.5 16.2	96 92 97	175.1 207.3 210.6	169.8 194.2 192.6	5.4 13.1 18.0	97 94 91
2387	Apparel belts1987 1982 1977	627.8 556.5 287.0	513.6 452.5 234.9	39.6 54.6 33.3	74.5 49.4 18.8	93 89 88	546.8 474.2 244.3	513.6 452.5 234.9	33.2 21.7 9.4	94 95 96
2389	Apparel end eccessories, n.e.c1987	383.4 279.2 205.6	308.7 222.0 166.7	29.6 21.8 19.0	45.0 35.4 19.9	91 91 90	458.5 243.2 175.7	308.7 222.0 166.7	149.8 21.2 9.0	67 91 95

# Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982

[Includes quentity end velue of products of this industry produced by (1) establishments clessified in this industry (primary) end (2) establishments clessified in other industries (secondary). Transfers of products of this industry from one establishment of e company to another establishment of the same compeny (interplant transfers) are also included. For further explanation, see Value of Shipments in appendixes. For comperebility of product classes end product codes between 1982 and 1987, see appendixes. For meaning of abbreviations end symbols, see introductory text]

			1987			1982	
1987		Number of compenies	Product s	hipments1	Number of compenies	Product s	hipments1
product code	Product	with shipments of \$100,000 or more	Quantity <sup>2</sup>	Value (million dollars)	with shipments of \$100,000 or more	Quantity <sup>2</sup>	Value (million dollars)
2371	FUR GOODS						
	Total	(NA)	(X)	399. <b>2</b>	(NA)	(X)	397.9
23710 — 23710 00 23710 02	Fur goods: Fur coats, capes, jeckets, neck pieces, linings, and other fur garments, eccessories, and trimmings	124	(×)	320.8	182	(×)	338.4
	typically for establishments with less then 5 employees (see note)	(NA)	(X)	78.4	(NA)	(X)	59.5
2381	DRESS AND WORK GLOVES AND MITTENS						
	Total	(NA)	(X)	192.4	(NA)	(X)	206.6
23813 — 23813 00	Gioves and mittens mede from purchesed fabrics: Gloves end mittens made from purchased fabrics (see elso codes 2259020 and 3151000) (for edditionel detail see table 6a-2)	30	(X)	139.6			
23814 — 23814 00	Gloves end mittens made from purchesed fabrics: Gloves end mittens mede from leether-and-fabric combinetions (see elso codes 2259020 and 3151000) (for additional detail table 6a-2)	32	(×)	43.0	- (NA)	(X)	195.0
23810	Dress and work gloves and mittens, n.s.k.	(NA)	(X)	9.7	(NA)	(X)	11.6
23810 00 23810 02	Dress and work gloves and mittens, n.s.k., typically for establishments with 20 employees or more (see note)	-	(X)	-	(NA)	(X)	4.7
20010 02	establishments with less than 20 employees (see note)	(NA)	(X)	9.7	(NA)	(X)	6.9

# Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) esteblishments classified in this industry (primery) end (2) esteblishments classified in other industries (secondary). Trensfers of products of this industry from one establishment of e company to enother esteblishment of the same company (interplent trensfers) ere elso included. For further explanation, see Velue of Shipments in appendixes. For comparability of product clesses and product codes between 1982 end 1987, see appendixes. For meening of ebbrevietions and symbols, see introductory text]

			1987			1982	
1987	Control	Number of compenies	Product sh	ilpments <sup>1</sup>	Number of compenies	Product ship	ments <sup>1</sup>
product code	Product	with shipments of \$100,000		Velue (millon	shipments of \$100,000		Velue (million
2384	ROBES AND DRESSING GOWNS	or more	Quentity <sup>2</sup>	dollers)	or more	Quentity <sup>2</sup>	dollers
2304	HODES AND DRESSING GOVINS						
	Total	(NA)	(X)	502.3	(NA)	(X)	416.0
23840 — 23840 11	Robes end dressing gowns:  Men's and boys' robes end dressing gowns, including						
	smoking jackets (for edditionel detail see table 6e-2)1,000 dozens	25	(X)	149.1	20	74.9	89.
23840 21	Women's, misses', and juniors' robes and dressing gowns (including brunch coats and housecoats) (for edditionel	4-	00	205.4	(214)	00	001
23840 00	detail see table 6a-2)).  Robes and dressing gowns, n.s.k., typically for establishments with 5 employees or more (see note)	47 (NA)	(X) (X)	335.4 12.9	(NA)	(X) (X)	301.3
23840 02	Robes and dressing gowns, n.s.k., typically for establishments with less then 5 employees (see note)	(NA)	(x)	4.9	(NA)	(x)	6.8
	establishments with less their 3 employees (see hote)	(NA)	(^)	4.5	(14/2)	(^)	0.0
2385	WATERPROOF OUTERWEAR						
	Total	(NA)	(X)	318.1	(NA)	(X)	429.
23851 — 23851 40	Raincoats and other waterproof outerwearRaincoats and raincapes (for additional detail see table	(NA)	(X)	288.9	(NA)	(X)	357.0
23851 71	6a-2) Baby pants and diaper covers, plastics and rubberized 1,000	35	(X)	256.0	58	(×)	322.2
23851 98	All other plastics or rubberized waterproof outerwear,	3	(S)	4.7	3	(D)	(D
	including aprons, smocks, bibs, dress shields, bathing caps, etc. (except oil coated and rubber body)Raincoats and other waterproof outerwear, n.s.k	13	(X) (X)	28.3	9	(X)	(D
23851 00		-	(X)	-	-	(×)	•
23859 — 23859 00	Contract and commission work on raincoats and waterproof outerwear:  Contract and commission work on raincoats and other						
23659 00	waterproof outerwear	9	(X)	11.5	(NA)	(X)	37.
23850 23850 00	Waterproof outerwear, n.s.k. Waterproof outerwear, n.s.k., typically for establishments	(NA)	(X)	17.7	(NA)	(X)	35.0
23850 02	Waterproof outerwear n.s.k. hypically for establishments	(NA)	(X)	7.0	(NA)	(X)	32.0
	with less than 5 employees (see note)	(NA)	(X)	10.7	(NA)	(X)	3.0
2386	LEATHER AND SHEEP-LINED CLOTHING						
	Total	(NA)	(X)	175.1	(NA)	(X)	207.3
23860 —	Leather and sheep-lined clothing:	, í					
23860 15	Leather coats and jackets:  Men's and boys'1,000						
23860 53	Women's, misses', and juniors' do	32 34	67.3 62.1	68.3 58.8	49 42	131.6 70.2	110.1 62.9
23860 98	children's do	21	66.5	36.3	18	(S)	14.5
23860 00	Leather and sheep-lined clothing, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	(X)	3.4	(NA)	(X)	12.
23860 02	Leather and sheep-lined clothing, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	8.4	(NA)	(X)	7.4
2387	APPAREL BELTS						
2007							
	Total	(NA)	(X)	546.8	(NA)	(X)	474.2
23871 —	Belts, leather Women's and children's:	(NA)	(X)	329.4	(NA)	(X)	261.
23871 13	Made for sale to apparel firms1,000 dozens	53	(S)	83.1	39	*2 231.3 1 725.5	50.8 46.0
23871 15	Made for sale separatelydo_ Men's and boys': Made for sale to apparel firms1,000	29	1 620.8	55.6	30	1 /25.5	40.0
23871 53 23871 55	Made for sale to appare limits	35 25	**1 989.7	83.1 106.1	26 35	3 043.9 2 849.8	61.9 96.0
23871 00	Leather belts, n.s.k.	(NA)	(S) (X)	1.6	(NA)	(X)	6.8
23872 —	Belts, other than leather	(NA)	(X)	177. <b>7</b>	(NA)	(X)	164.7
23872 13	Made for sale to apparel firms1,000 dozens	43	**3 548.8	53.8	62	**9 366.4	74.2
23872 15	Made for sale separately do Men's and boys':	28	**4 048.5	46.4	25	1 865.5	36.8
23872 53	Made for sale to apparel firms1,000 dozens	34	(S)	49.2	17	2 399.4	25.9
23872 55 238 <b>72</b> 00	Made for sale separatelydo Belts, other than leather, n.s.k	17 (NA)	2 055.2 (X)	28.3 (Z)	18 (NA)	2 079.8 (X)	23.5 4.2
23870	Apparel belts, n.s.k	(NA)	(X)	39.7	(NA)	(X)	48.0
23870 00	employees or more (see note)	(NA)	(X)	23.7	(NA)	(X)	37.4
23870 02	Appare/ belts, n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(x)	16.0	(NA)	(X)	10.6

# Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982—Con.

[Includes quentity and value of products of this Industry produced by (1) establishments classified in this Industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of e company to enother establishment of the same company (interplent transfers) ere elso included. For further explanation, see Value of Shipments in appendixes. For comparability of product classes and product codes between 1982 and 1987, see appendixes. For meaning of abbreviations and symbols, see introductory text]

			1987		1982			
1987		Number of compenies	Product s	hipments <sup>1</sup>	Number of compenies	Product shipments <sup>1</sup>		
product code	Product	shipments of \$100,000 or more	Quantity <sup>2</sup>	Velue (million dollars)	with shipments of \$100,000 or more	Quantity <sup>2</sup>	Value (million dollars)	
2389	APPAREL AND ACCESSORIES, N.E.C.							
	Totel	(NA)	(X)	458.5	(NA)	(X)	243.2	
23890	Apperel end eccessories, n.e.c.:							
23890 31	Gerters, hose supporters, erm bends, end suspenders1,000 dozens	20	**1 428.2	32.9	10	398.5	6.0	
23890 53	Men's end boys' handkerchiefs do	4	(S)	32.2	7	6 043.5	28.0	
23890 57 23890 71	Women's and children's handkerchiefs do Garter belts (for edditional deteil, see Current Industriel	4	3 392.0	19.6	5	2 231.7	13.0	
	Report MA-23A, Apparel)	3	(X) (S)	9.4	6	112.8	3.6	
23890 81 23890 91	Buriel garments do Acedemic caps end gowns, end costumes, including	8	(S)	10.5	11	(S)	6.9	
23090 91	theatrical	48	(X)	138.1	56	(X)	105.6	
23890 98	Ecclesiestical vestments, special garments for fraternal		, ,			, ,		
	orders (except tailored clothing and military-type uniforms) and all other clothing, n.e.c., including band uniforms	37	(X)	164.6	42	(X)	30.2	
23890 00	Apparel and eccessories, n.e.c., n.s.k., typicelly for		, ,					
23890 02	establishments with 10 employees or more (see note) Apparel and accessories, n.e.c., n.s.k., typically for	(NA)	(X)	27.2	(NA)	(X)	43.2	
20000 02	establishments with less then 10 employees (see note)	(NA)	(X)	24.0	(NA)	(X)	6.7	

Note: In 1987 Census of Manufactures, dete for establishments of small single unit compenies with up to 20 employees were estimated from administrative-record data rather than data actually collected from respondents. Employment cutoffs used for edministrative records for each industry and shipments figures are included in code ending with "002". In both 1987 and 1982 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (five-digit) followed by "00" or to appropriate product group code (four-digit) followed by "000".

¹Deta reported by ell producers, not just those with shipments of \$100,000 or more. ²For some establishments, date have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quentity figure estimated in this menner equels or exceeds 10 percent of published figure: \* 10 to 19 percent estimated; \*\* 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

# Table 6a-2. Related Products From Current Industrial Reports Series—Value of Shipments by All Producers: 1987 and 1982

[Additional detail is provided in the Current Industrial Report series. For meening of abbreviations and symbols, see introductory text]

1987		1987 produc	ct shipments	1982 product shipments		
product code	Product	Quantity	Value (million dollars)	Quantity	Value (million dollars)	
	MA23A, APPAREL					
23840 11	Men's and boys' robes end dressing gowns1,000 dozens_	942	117.1	747	87.0	
23840 21	Women's, misses', and junior's robes, dressing gowns, housecoats, etcdo	2 289	321.7	2 652	304.9	
23851 50	Men's and boys' raincoets thousands	3 103	123.5	2 979	116.5	
23851 20	Women's, missses', and juniors' raincoats do	1 346	78.2	4 884	185.1	
23890 71	Garter belts1,000 dozens_	88	4.0	(NA)	(×)	
	MA23D, GLOVES AND MITTENS					
23813 10	Knit febric gloves and mittens1,000 dozen peirs	14 261	119.7	18 209	178.1	
23813 20	Woven fabric gloves end mittens do	8 282	87.9			
23814 — 23814 16 23814 17	Leather and fabric combinetion gloves end mittens do_ Dress and semidress gloves end mittens do_ Work gloves and mittens do_	728 159 569	36.5 (X) (X)	1 097 199 898	52.4 15.8 36.6	

# Table 6a-3. Selected Products Primary to More Than One Industry—Quantity and Value of Shipments by Industry: 1987 and 1982

Includes quantity end value of products of this industry produced by (1) esteblishments clessified in this industry (primery) end (2) esteblishments clessified in other industries (secondery). Trensfers of products of this industry from one establishment of a company to enother esteblishment of the same compeny (interplent trensfers) elso ere included. For further explenetion, see Velue Shipments in appendixes. For comparability of product classes end product codes between 1982 end 1987, see eppendixes. For meening of ebbreviations end symbols, see introductory text)

1987 product code	Product		1987		1982		
		Number of compenies	Product shipments <sup>1</sup>		Number of	Product shipments <sup>1</sup>	
		shipments of \$100,000 or more	Quantity <sup>2</sup>	Velue (million dollers)	compenies with shipments of \$100,000 or more	Quantity <sup>2</sup>	Value (million dollers)
23813 00 23814 00 22590 20	Gloves and mittens, except ell leather	(NA) (NA) 17	(X) (X) (X)	268.7 182.6 86.1	(NA) (NA) (NA)	(X) (X) (X)	231.1 195.0 36.1

¹Deta reported by all producers, not just those with shipments of \$100,000 or more.
²For some establishments, data have been estimated from central unit values which ere based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: \* 10 to 19 percent estimated; \*\* 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

# Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1987 and 1982

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1987. For meaning of abbreviations and symbols, see introductory text. For comparability of product classes and product codes between 1982 and 1987 and explanation of terms, see appendixes]

1987 value of product shipments	1982 value of product shipments	Product class and geographic area	1987 value of product shipments	1982 value of product shipments
		23859, CONTRACT AND COMMISSION RECEIPTS		
139.6	(NA)	United States	11.5	(NA)
20	(NIA)	New York	3.9	(NA)
51.2 34.0	(NA) (NA)	23871, BELTS, LEATHER		
		United States	329.4	261.5
		CaliforniaLouisiana	46.0 3.1	28.0 (NA)
43.0	(NA)	New York	108.2	15.7 77.6
5.8	(NA)	Pennsylvania	11.5	7.3 15.1 31.2
		23872, BELTS, OTHER THAN LEATHER	29.2	31.2
288.9	357.0	United States	177.7	164.7
6.7	8.3	California	10.8 103.0	8.6 99.8
23.7	53.7 (NA)	PennsylvaniaTexas	17.6 8.5	13.1
	139.6 3.0 51.2 34.0 43.0 5.8 288.9 6.7 23.7	139.6	Product Shipments	Product shipments   Product class and geographic area   Product shipments

# Table 6c. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For comparability of product classes and product codes between 1982 and 1987 and explanation of terms, see

appoiluis	appointness								
1987 product code	Product class	1987	19861	19851	19841	19831	1982	1977	1972
<b>2371-</b> 23710	Fur goods	399.2 399.2	350.8 350.8	377.4 377.4	3 <b>80.</b> 5 3 <b>8</b> 0.5	<b>425.</b> 3 <b>425.</b> 3	397.9 397.9	35 <b>8.</b> 5 35 <b>8</b> .5	213.6 213.6
2381-	Dress and work gloves and mittens	192.4	213.0	226.9	217.0	208.9	206.6	278.3	171.7
23813 23814	Gloves and mittens made from purchased fabrics	139.6 43.0		200.5	204.0	191.8	195.0	262.3	159.2
23810	Dress and work gloves and mittens, n.s.k	9.7	20.3	26.4	13.0	17.1	11.6	16.0	12.5
<b>2384</b> - 23840	Robes and dressing gowns	50 <b>2.</b> 3 502.3	<b>445.4</b> 445.4	421.2 421.2	443.6 443.6	43 <b>2.1</b> 432.1	416.0 416.0	243.3 243.3	169.6 169.6
2385- 23851	Waterproof outerwear	318.1 288.9	289.7 240.8	329.9 255.5	409.4 344.4	445.4 368.9	429.7 357.0	338.9 285.8	321.6 252.4
23859	Contract and commission receipts	11.5	29.0	29.6	31.1	34.5	37.7	25.8	35.2
23850	Waterproof outerwear, n.s.k.	17.7		44.7	34.0	42.1	35.0	27.3	34.0

## Table 6c. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years—Con.

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For comparability of product classes and product codes between 1982 and 1987 and explanation of terms, see appendixes]

1987 product code	Product class	1987	19861	19851	19841	19831	1982	1977	1972
2386-	Leather and sheep-lined clothing	<b>175.1</b>	143.1	<b>146.5</b>	189.0	206.2	207.3	<b>210.8</b>	<b>173.5</b>
23860		175.1	143.1	146.5	189.0	206.2	207.3	210.6	173.5
2387-	Apparel belts	548.8	436.5	<b>442.</b> 6	<b>475.</b> 6	492.4	<b>474.2</b>	244.3	234,1
23871		329.4	275.2	277.5	2 <b>7</b> 8.2	272.8	261.5	155.5	157.9
23872		177.7	129.3	136.2	155.6	179.9	164.7	58.2	47.0
238 <b>7</b> 0		39.7	32.0	28,9	41.8	39.7	48.0	30.6	29.2
2389-	Apparel and accessories, n.e.c. Apparel and accessories, n.e.c.	<b>45</b> 8.5	218.2	224.2	<b>22</b> 6.8	<b>248.2</b>	<b>243.2</b>	1 <b>75.7</b>	1 <b>23.2</b>
23890		458.5	218.2	224.2	226.8	248.2	243.2	175.7	123.2

<sup>&</sup>lt;sup>1</sup>Figures are estimates derived from a representative sample of manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures publications for this period.

#### Table 7. Materials Consumed by Kind: 1987 and 1982

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendixes. For meaning of abbreviations and symbols, see introductory text]

4007		19	987	15	982
1987 material code	Material	Quantity <sup>1</sup>	Delivered cost (million dollars)	Quantity <sup>1</sup>	Delivered cost (million dollars)
	INDUSTRY 2371, FUR GOODS				
	(Material data were not collected for this industry.)				
	INDUSTRY 2381, FABRIC DRESS AND WORK GLOVES				
	Materials, parts, containers, and supplies	(x)	72.9	(X)	89.9
220129 225078	Broadwoven fabricsmil lin yd Knit fabricsmil lb_	(X) (S)	29.9 19.2	*36.9 (S)	38.3 17.6
228015 311100	Yarns, all fibersdo_ Finished leathermil sq ft_	(X) (S) (S) (X) (X)	1.7 9.3	*19.6	( <sup>3</sup> ) 12.8
970099 971000	All other materials, containers, and supplies	(X) (X)	8.5 4.4	(X)	<sup>3</sup> 12.9 8.3
	INDUSTRY 2384, ROBES AND DRESSING GOWNS				
	Materials, containers, and supplies	(X)	206.9	(X)	156.3
220129 225078	Broadwoven fabrics	(X) (X) (X) (X)	91.8 95.6	(X) (X)	87.4 35.6
970099 971000	All other materials, containers, and supplies  Materials, containers, and supplies, n.s.k.2	(X)	10.2 9.2	(X) (X) (X)	10.7 22.5
	INDUSTRY 2385, WATERPROOF OUTERWEAR				
	Materials, containers, and supplies	(X)	132.5	(X)	157.1
220129 225078	Broadwoven fabrics	(X) (X)	78.4	(X)	99.8
970099 971000	All other materials, containers, and supplies	(X)	46.2 7.9	(X)	35.2 22.1
	INDUSTRY 2386, LEATHER AND SHEEP-LINED CLOTHING				
	Materials, containers, and supplies	(X)	82.4	(X)	110.0
220129 225078	Broadwoven fabrics	(X)	7- 11.3	T 8	5.9 1.2
311100 970099 971000	Finished leather	888 888 888	52.7 10.6 7.8		76.7 9.3 17.1
	INDUSTRY 2387, APPAREL BELTS				
	Materials, containers, and aupplies	(X)	225.7	(X)	212.7
220129 225078	Broadwoven fabrics	(X) (X) (X)	19.7 13.6	(X) (X)	10.9 16.8
311100 970099	Finished leather All other materials, containers, and supplies	(X)	90.5 79.3	8888 8888	83.4 66.8
971000	Materials, containers, and supplies, n.s.k.2	1 (X)	22.5	(X) I	34.8

See footnotes at end of table.

#### Table 7. Materials Consumed by Kind: 1987 and 1982-Con.

[Includes quantity and cost of materials consumed or put into production by astablishments classified only in this industry. For further explanation, see Cost of Materials in appendixes. For meaning of abbreviations and symbols, see introductory text]

1007		19	87	1982			
1987 material code	Material	Quantity <sup>1</sup>	Dailvarad cost (million dollars)	Quantity <sup>1</sup>	Dailvarad cost (million dollars)		
	INDUSTRY 2389, APPAREL AND ACCESSORIES, N.E.C.						
	Materials, containers, and supplies	(X)	137.3	(X)	99.0		
220129 225078 970099 971000	Broadwovan fabrics	888 888 888	52.9 24.7 34.6 25.1	888 888	31.4 13.3 28.0 26.3		

For some establishmants, data have been astimated from central unit values which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this mannar equals or exceeds 10 percent of published figure: \* 10 to 19 percent astimated; \*\* 20 to 29 percent astimated. If 30 percent or mora is estimated, figure is replaced by (S).

\*\*Total Cost of materials of astablishmants that did not report datailed materials data, including establishmants that were not mailed a form.

\*\*For 1982, material code 228015 was included with material code 970099.

## APPENDIX A. Explanation of Terms

This appendix is in two sections. Section 1 includes items requested of all establishments mailed census of manufactures forms including annual survey of manufactures (ASM) forms. Note that this section also includes several items (number of establishments and companies, value added, classes of products, and specialization and coverage ratios) not included on the report forms but derived from information collected on the forms. Section 2 covers supplementary items requested only from establishments included in the ASM sample. Results of the supplementary ASM inquiries are included in table 3c of this report.

## SECTION 1. ITEMS COLLECTED OR DERIVED BASED ON ALL CENSUS OF MANUFACTURES (INCLUDING ASM) REPORT FORMS

Number of establishments and companies—As discussed in the Introduction, a separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

If the company operated at different physical locations, even if the individual locations were producing the same line of goods, a separate report was requested for each location. If the company operated in two or more distinct lines of manufacturing at the same location, a separate report was requested for each activity.

An establishment not in operation for any portion of the year was requested to return the report form with the proper notation in the "Operational Status" section of the form. In addition, the establishment was requested to report data on any employees, capital expenditures, inventories, or shipments from inventories during the year.

In this report, data are shown for establishments in operation at any time during the year. A comparison with the number of establishments in operation at the end of the year will be provided in the Introduction of the General Summary subject report.

**Employment and related items—**The report forms requested separate information on production workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees—This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods.

Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

Production workers—This item includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Employees above the working-supervisor level are excluded from this item.

All other employees—This item covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It includes sales (including driver salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office function, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical employees. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force.

In addition to reports sent to operating manufacturing establishments, information on employment during the payroll period which included March 12 and annual payrolls also was requested of auxiliary units (e.g., administrative offices, warehouses, and research and development laboratories) of multiestablishment companies. However, these figures are not included in the totals for individual

industries shown in this report. They are included in the general summary and geographic area reports as a separate category.

Payroll—This item includes the gross earnings of all employees on the payroll of operating manufacturing establishments paid in the calendar year 1987. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Management and Budget. It should be noted that this definition does not include employers' Social Security contributions or other nonpayroll labor costs, such as employees' pension plans, group insurance premiums, and workers' compensation.

The ASM provides estimates of employers' supplemental labor costs, both those required by Federal and State laws and those incurred voluntarily or as part of collective bargaining agreements. (Supplemental labor costs are explained later in this appendix.)

As in the case of employment figures, the payrolls of separate auxiliary units of multiestablishment companies are not included in the totals for individual industries or industry groups.

Production-worker hours—This item covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave.

Cost of materials—This term refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (1) all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year, (2) electric energy purchased, (3) fuels consumed for heat, power, or the generation of electricity, (4) work done by

others on materials or parts furnished by manufacturing establishments (contract work), and (5) products bought and resold in the same condition. (See discussion of duplication of data below.)

Specific materials consumed—In addition to the total cost of materials, which every establishment was required to report, information also was collected for most manufacturing industries on the consumption of major materials used in manufacturing. The inquiries were restricted to those materials which were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers' records. Information on the establishments consuming less than a specified amount (usually \$10,000) of a specific material were not requested to report consumption of that material separately. Also, the cost of materials for the small establishments for which either administrative records or short forms were used was imputed as "not specified by kind." (See the introduction for the importance of administrative records in the industry.)

Value of shipments—This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and resold without further processing. Included are all items made by or for the establishments from materials owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, including not only the direct cost of production but also a reasonable proportion of "all other costs" (including company overhead) and profit. (See discussion of duplication of data below.)

Individual products—As in previous censuses, data were collected for most industries on the quantity and value of individual products shipped. In the 1987 census program, information was collected on the output of approximately 11,000 individual product items. The term "product", as used in the census of manufactures, represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term "product" as used in the marketing sense. In some cases, it may be much more detailed and, in other cases, it is more aggregative. For example, "pharmaceutical preparations" was distributed into over 100 terms; whereas, "motor gasoline" was reported as a single item.

Approximately 6,600 of the product items were listed separately on the 1987 census report forms. Data for

about 4,400 products were obtained in the monthly, quarterly, or annual surveys comprising the Current Industrial Reports series of the Census Bureau. Totals for the year 1987 for these items, as derived from the commodity surveys, are shown in the "products shipped" table (table 6a-2).

The list of products for which separate information was collected was prepared after consultation with industry and government representatives. Comparability with previous figures was given considerable weight in the selection of product categories so that comparable 1982 information is presented for most products.

Typically, both quantity and value of shipments information were collected. However, if quantity was not significant or could not be reported by manufacturers, only value of shipments was collected.

Shipments include both commercial shipments and transfers of products to other plants of the same company. For industries in which a considerable portion of the total shipments is transferred to other plants of the same company, separate information on interplant transfers also was collected. Moreover, for products that are used to a large degree within the same establishment as materials or components in the fabrication of other products, total production and often consumption of the item within the plant was collected. Typically, the information on production also was collected for products for which there are significant differences between total production and shipments in a given year because of wide fluctuations in finished goods inventories. Other measures of output of products with long production cycles were used as appropriate and feasible.

Classes of products—To summarize the product information, the separate products were aggregated into classes of products that, in turn, were grouped into all primary products of each industry. The code structure used is a seven-digit number for the individual product, a five-digit number for the class of product, and a four-digit number for the total primary products in an industry. (See Introduction, Industry Classification of Establishments, for application of the coding structure to the assignment of SIC codes for establishments.)

In the 1987 census, the 11,000 products were grouped into approximately 1,500 separate classes on the basis of general similarity of manufacturing processes, types of materials used, and the like. However, the grouping of products was affected by the economic significance of the class and, in some cases, dissimilar products were grouped because the products were not sufficiently significant to warrant separate classes.

Duplication in cost of materials and value of shipments— The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

Duplication of products within individual industries is significant within a number of industry groups, e.g., machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs of value of shipments, both among industries and within the same industry.

Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have been published for all industries at the United States level and beginning in 1964, for all geographic levels.

Value added by manufacture—This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process between the beginning- and end-of-year inventories.

For those industries where value of production is collected instead of value of shipments (see footnote in table 1a), value added is adjusted only for the change in work-in-process inventories between the beginning and end of year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

"Value added" avoids the duplication in the figure for value of shipments that results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

New and used capital expenditures—For establishments in operation and any known plants under construction, manufacturers were asked to report their new expenditures for (1) permanent additions and major alterations to

manufacturing establishments, and (2) machinery and equipment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

The totals for new expenditures include expenditures leased from nonmanufacturing concerns through capital leases. New facilities owned by the Federal Government but operated under contract by private companies, and plant and equipment furnished to the manufacturer by communities and nonprofit organizations are excluded. Also excluded are expenditures for used plant and equipment (although reported in the census), expenditures for land, and cost of maintenance and repairs charged as current operating expenses.

Manufacturers also were requested to report the value of all used buildings and equipment purchased during the year at the purchase price. For any equipment or structure transferred for the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. Furthermore, if the establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported under used capital expenditures.

Total expenditures for used plant and equipment is a universe figure; it is collected on all census forms. However, the breakdown of this figure between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. The data for total new capital expenditures, new building expenditures, and new machinery expenditures, as well as the data for total used expenditures, are shown in table 3b.

End-of-year inventories—Respondents were asked to report their 1986 and 1987 end-of-year inventories at cost or market. Effective with the 1982 Economic Censuses, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). In 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Because of this change in reporting instructions, the 1982 through 1987 data for inventories and value added by manufacture included in the tables of this report are not comparable to the prior-year data shown in table 1a of this report and in historical census of manufactures and annual survey of manufactures publications.

In using inventory data by stage of fabrication for "all industries" and at the two-digit industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and "all manufacturing", which are aggregates of figures reported by establishments in specified industries.

**Specialization and coverage ratios**—These items are not collected on the report forms but are derived from the data shown in table 5b. An establishment is classified in a particular industry if its shipments of primary products of that industry exceed in value its shipments of the products of any other single industry.

As noted in the introduction, an establishment's shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). Specialization and coverage ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in tables 1a through 5a and data on product shipments shown in tables 6a through 6c.

Specialization ratio represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments wherever classified.

#### SECTION 2. ITEMS COLLECTED ONLY ON ASM REPORT FORMS

The following items were collected only from establishments included in the ASM sample:

 Supplemental labor costs—Supplemental labor costs are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans.

They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees. While the excluded items do benefit employees and all or part of their cost generally is similar to the items covered in the ASM labor costs statistics, accounting records generally do not provide reliable figures on net employee benefits of these types.

- 2. Retirements of depreciable assets—Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during 1987. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent also was requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.
- 3. Depreciation charges for fixed assets—This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.
- 4. Rental payments—Total rental payments is collected on all census forms. However, the breakdown between rental payments for buildings and other structures and rental payments for machinery and equipment is collected only on the ASM forms. This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets, and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these company-owned assets was to be reported as assets of the establishment at the end of the year.

If there were assets at an establishment rented from another company and the rents were paid centrally by the head office of the establishment, the company was instructed to report these rental payments as if they were paid directly by the establishment.

Depreciable assets—Total value of gross depreciable assets is collected on all census forms. However, the detail for depreciable assets is collected only on the ASM forms. The data encompass all fixed depreciable assets on the books of establishments at the beginning and end of the year. The values shown (book value) represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are nondepreciable capital assets, including inventories and intangible assets, such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year, rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress. In addition, respondents were requested to make certain that assets at the beginning of the year plus new and used capital expenditures, less retirements, equalled assets at the end of the year.

- 6. New and used capital expenditures—The data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used capital expenditures are collected on all census forms. However, the breakdown between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. (See further explanation on capital expenditures in section 1.)
- 7. Quantity of electric energy consumed for heat and power—Data on the cost of purchased electric energy were collected on all census forms. However, data on the quantity of purchased electric energy were collected only on the ASM forms. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.
- 8. Breakdown of new capital expenditures for machinery and equipment—ASM establishments were requested to separate their capital expenditures for new machinery and equipment into (1) automobiles, trucks, etc., for highway use, (2) computers and peripheral data processing equipment, and (3) all other.

The category "automobiles, trucks, etc., for highway use" is intended to measure expenditures for vehicles designed for highway use that were acquired through a purchase or lease-purchase agreement.

Vehicles normally operating off public highways (vehicles specifically designed to transport materials, property, or equipment on mining, construction, logging, and petroleum development projects) are excluded from this item.

- 9. Foreign content of cost of materials—Establishments included in the ASM sample panel were requested to provide information on foreign-made materials purchased or transferred from foreign sources. This includes materials acquired from a central warehouse or other domestic establishment of the same company but made in an operation outside of the 50 States, District of Columbia, Puerto Rico, or U.S. territories.
- 10. Cost of purchased services—ASM establishments were requested to provide information on the cost of purchased services for the repair of buildings and other structures, the repair of machinery, and communication services. Included in the cost of purchased services for the repair of buildings and machinery are payments made for all maintenance and repair work on buildings and equipment, such as painting, roof repairs, replacing parts, and overhauling equipment. Such payments made to other establishments of the same company and for repair and maintenance of any leased property also are included. Extensive repairs or reconstruction that were capitalized are considered capital expenditures for used buildings and machinery and are, therefore, excluded from this item. Repair and maintenance costs provided by an owner as part of a rental contract or incurred directly by an establishment in using its own work force also are excluded.

Three basic approaches were utilized to produce these statistics.

1. For items 1 through 6, data were estimated (imputed) for all non-ASM establishments using the available data in the establishment record and industrybased parameters. The statistics were then generated by simply tabulating all census records including the imputed value for non-ASM establishments and the unweighted value for ASM establishments. Separate imputation rates were developed and are shown in the table. For quantity of purchased electricity for heat and power (item 7), a similar procedure was used; however, the imputation parameters were geographically-based instead of industrybased. For quantities of generated less sold electricity, no imputation was performed for non-ASM establishments. The estimates for these items are simply tabulations of unweighted ASM values.

Since the published statistics for these items were developed from the complete census universe and not just the ASM establishments, there are no sampling variances associated with these statistics. However, there is an unknown level of bias for each of the items due to the imputation of the non-ASM establishments. This bias is felt to be small due to the strong correlation between the items being imputed and the collected items that were used to generate the impute values.

2. For items 8 and 9, the estimates were developed using a ratio estimation methodology. For item 8, an estimate of the breakout of new capital expenditures for machinery and equipment into the three categories was made from ASM establishments reporting these categories. The estimated proportions were then applied to the corresponding Census value for new capital expenditures for machinery and equipment to produce the estimates.

The estimates for item 9, foreign content of cost of materials, were developed in a similar manner based on costs of parts, supplies, and components (item 5a) as the control total for the three categories.

For items 8 and 9, an adjustment ratio of the following form was computed.

$$Rj = \frac{NMc}{TMEasm}$$

where:

NMc = the census value of new capital expenditures for machinery and equipment

TMEasm = the weighted ASM value of new capital expenditures for machinery and equipment from reporters of the detailed breakout data

3. For item 10, cost of purchased services, the estimates were made by simply tabulating weighted data for all the ASM records that reported the item. A response coverage ratio (a measure of the extent to which respondents reported for each item) is shown in table 3c for the three types of services. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight, see appendix B) for those ASM establishments that reported the specific inquiry to the weighted total employment for all ASM establishments classified in the industry.

#### APPENDIX B.

## Annual Survey of Manufactures (ASM) Sampling and Estimating Methodologies

#### DESCRIPTION OF SURVEY SAMPLE

The Annual Survey of Manufactures (ASM) contains two components. The mail portion of the survey is a probability sample of about 56,000 manufacturing establishments selected from a total of about 220,000 establishments. These 220,000 establishments represent all manufacturing establishments of multiunit companies and all single establishment companies mailed schedules in the 1982 Census of Manufactures. This mail portion is supplemented annually by a Social Security Administration list of new manufacturing establishments opened after 1982 and a list of new multiunit manufacturing establishments identified from the Census Bureau's Company Organization Survey.

The 1984 through 1988 ASM sample differs slightly from the previous sample. For the current panel, all establishments of companies with 1982 shipments in manufacturing in excess of \$500 million were included in the survey panel with certainty. There are approximately 500 such companies collectively accounting for approximately 18,000 establishments. For the remaining portion of the mail survey, the establishment was defined as the sampling unit. For this portion, all establishments with 250 employees or more and establishments with a very large value of shipments also were included in the survey panel with certainty. A total of 12,100 establishments were selected from this portion of the universe with certainty. Therefore, of the 56,000 manufacturing establishments included in the ASM panel, approximately 31,000 are selected with certainty. These certainty establishments collectively account for approximately 80 percent of the total value of shipments in the 1982 census.

Smaller establishments in the remaining portion of the mail survey were sampled with probabilities ranging from 0.999 to 0.005 in accordance with mathematical theory for optimum allocation of a sample. The probabilities of selection assigned to the smaller establishments were proportional to measures of size determined for each establishment. The measures of size depend directly upon each establishment's 1982 product class values and the historic variability of the year-to-year shipments of each product class. Product classes displaying more volatile year-to-year change in shipments at the establishment level were sampled at a heavier rate.

This method of assigning measures of size was used in order to maximize the precision (that is, minimize the variance of estimates of the year-to-year change) in the value of product class shipments. Implicitly, it also gave weight differences in employment, value added, and other

general statistics, since these are highly correlated with value of shipments. Individual sample selection probabilities were obtained by multiplying each establishment's final measure of size by an overall sampling fraction coefficient calculated to yield a total expected sample size.

The sample selection procedure gave each establishment in the sampling frame an independent chance of selection. This method of independent selection permits the rotation of small establishments out of a given sample panel without introducing a bias into the survey estimates.

The nonmail portion of the survey includes all singleestablishment companies that were tabulated as administrative records in the 1982 Census of Manufactures. Although this portion contained approximately 130,000 establishments, it accounted for less than 2 percent of the estimate for total value of shipments at the total manufacturing level. This portion was not sampled; rather, the data for every establishment in this group were estimated based on selected information obtained annually from the administrative records of the Internal Revenue Service and the Social Security Administration. This administrative-record information, which includes payroll, total employment, industry classification, and physical location of the establishment, was obtained under conditions which safeguard the confidentiality of both tax and census records. Estimates of data other than payroll and employment for these small establishments were developed from industry averages.

The corresponding estimates for the mail and nonmail establishments were added together, along with the base-year differences, as defined in the Description of Estimating Procedure section, to produce the figures shown in this publication.

#### DESCRIPTION OF ESTIMATING PROCEDURES

Most of the ASM estimates for the years 1983-1986 were computed using a difference estimation procedure. For each item, a base-year difference was developed. This base-year difference is equal to the difference between the 1982 census published number for an item total and the linear ASM estimate of the total for 1982. The ASM linear estimate was obtained by multiplying each sample establishment's data by its sample weight (the reciprocal of its probability of selection) and summing the weighted values.

These base-year differences were then added to the corresponding current-year linear estimates, which include the sum of the estimates for the mail and nonmail establishments, to produce the estimates for the years 1983-1986. Estimates developed by this procedure usually are far more reliable than comparable linear estimates developed from the current sample data alone.

The 1987 sample estimates for the purchased service items, shown in table 3c, are strictly ASM linear estimates, however, developed only from ASM establishments that reported the specific item.

The remaining estimates in table 3c, showing the break-down of expenditures for new machinery and equipment and costs of parts (separated into purchases from foreign sources and purchases from domestic sources), were computed as ratio estimates. To do this, linear estimates of the new machinery detail items were developed from the ASM establishments and were ratio adjusted to the corresponding census total for new machinery. In a similar fashion, the ASM linear estimates of the detailed purchased materials items were ratio adjusted to the corresponding census total for cost of parts.

#### QUALIFICATIONS OF THE DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sampled lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the differences between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of the estimates.

The particular sample selected for the ASM is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretical, comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected statistics in this report. They are presented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, completecoverage value for specified percentages of all the possible samples).

The complete coverage value would be included in the range:

- 1. From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
- 2. From two standard errors below to two standard errors above the derived estimate for about 19 of 20 of all possible samples.
- From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown as 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total and almost certain confidence that the interval 47,000 to 53,000 includes the complete coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected in the course of the Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or only moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown.

The concept of complete coverage under the conditions prevailing for the ASM is not identical to the complete coverage of the census of manufactures, as the censuses have been conducted. Nearly all types of operational errors that affect the ASM also occur in the censuses. The ASM and the censuses, are conducted under quite different conditions, and operational errors can be better controlled in the ASM than in the censuses. As a result, for many of the census figures, the errors are of the same order of size as the total errors of the corresponding annual survey estimates. The differences between the census and ASM operating conditions also disturb, to some degree, the comparability of the ASM and census data.

Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be of limited reliability. However, the figure may be combined with higher-level totals, creating a broader aggregate, which then may be of acceptable reliability.

# APPENDIX C. Changes in Census of Manufactures Product Classes for 1987

[Based on revisions to the Standard Industrial Classification (SIC) Manual definitions of some product classes were revised for 1987. Listed below are the revisions to the product classes]

1987	1982	1987	1982	1987	1982	1987	1982
11B	2011A 2013A pt	20866—Con.	20861 pt—Con. 20995 pt	2221F—Con.	22211 pt—Con. 22212 pt 22213 pt	23259—Con.	23279 — Con. 23289 pt
135	20130	20910	20324 pt 20910		22214 pt 22215 pt	23260	23280
3B	2013A pt	20925	20924	_	22216 pt 22217 pt	23261	23281
50	20160 20170	20926		2221G	22211 pt 22212 pt	23262	23284
51	20161 20171	20961 20962 20963	20992		22213 pt 22214 pt	23269	23289 pt
152	20162	20980	20981 pt	-	22215 pt 22216 pt 22217 pt	23293	23271 pt 23292
153	20172	20997	20341 pt	2221H	22211 pt	23530	23510 pt 23520
155	20163 20173		20440 pt 20982 2099A pt		22212 pt 22213 pt 22214 pt	23531	23521
154	20164 20174	20999	2099B pt		22215 pt 22216 pt 22217 pt	23532	23522
155	20165 20175	2099D	20995 pt	2221J	22218	23533	23510 pt
		2099E	2099C			23692	23631
59	20179	2099F 2099G	20981 pt	2221K	22219	23693	23691
239	20220	2211B	22111 pt 22112 pt	2221M 22510	2221A 22510 pt	23699	23619 23699
	2099A pt		22113 pt 22114 pt 22115 pt	22514	22510 pt	23813	23811 pt
67	20266 pt 2099B pt		22116 pt	22518	22517 pt	22814	23812 pt
268	20266 pt 2099B pt	2211C	22111 pt 22112 pt	22520	22510 pt	23814	23811 pt 23812 pt
124	20324 pt		22113 pt 22114 pt 22115 pt	22525	22520 22512 pt	23952	23951 pt
343	20341 pt		22116 pt	22323	22523	23958	23959
180	20380 pt	2211D	22111 pt 22112 pt	22526	22517 pt 22524	23964	23951 pt
184	20381 pt		22113 pt 22114 pt 22115 pt	22585	22920 pt	24930	24920 pt 26610
115	20383 pt 20383 pt	00115	22116 pt	22589	22589 22920 pt	24931	24920 pt
	20415	2211E	22111 pt 22112 pt 22113 pt	22730	22710 pt	24932	24920 pt
140	20440 pt		22114 pt 22115 pt	22700	22720 pt 22790 pt	24933	24993
150	20383 pt 20450		22116 pt	22731	22710 pt	24934	24996
70	20470 pt	2211F	22117	22732	22720 pt	24935	26611
180	20470 pt	2211G	22119	22733	22790 pt	24936	24998
	20480	2211H	2211A			24937	24995
18A	20475 20476	2221B	22211 pt 22212 pt	22815	22833	24994	2499A pt
530	20380 pt 20381 pt		22213 pt 22214 pt 22215 pt	22822	22822 22830	25115	25115 25158
340	20650 pt		22216 pt 22217 pt	22991	22910	25145	25141 25142
642	20652	2221C	22211 pt 22212 pt	22994	22940	25146	25143
643	20653		22211 pt 22212 pt 22213 pt 22214 pt 22215 pt	22995	22930	25147	25144
649	20659		22215 pt 22216 pt 22217 pt	22996	22992 22993	25425	25990
660	20660 20990 pt	2221D		23219	23219 pt	25991 25992 25994	
669	20668		22211 pt 22212 pt 22213 pt 22214 pt 22215 pt	23221	23220	2621B	26612
	20998		22214 pt 22215 pt 22216 pt	23222	23215	26560	26540
80	20341 pt 20650 pt		22217 pt	23229	23219 pt 23229	26561	26541
63	20657 20861 pt	2221E	22211 pt 22212 pt 22213 pt 22214 pt 22215 pt	23250	23270	26562	26542
363 364 365	20001 pt		22213 pt 22214 pt 22215 pt	23251	23271 pt	26563	26545
			22216 pt 22217 pt	23252	23283	26570	26510
866	20861 pt 20862	2221F	22211 pt	23259	23279		26544

[Based on revisions to the Standard Industrial Classification (SIC) Manual definitions of some product classes were revised for 1987. Listed below are the revisions to the product classes]

1987	1982	1987	1982	1987	1982	1987	1982
6710	26410 pt	26753	26455	27591	27511 pt	28350—Con. 28351	2831A-Con.
26711	26415	26760	26470	27592	27512 pt	28352	
26712	26416	26761	26471	27593	27513 pt	28360	28310
26713	26419	26763	26473	27594	27514 pt	28361	28311
26714	2641A	26764	26474	27595	27515 pt	28362	28312
26720	26410 pt	26770	26420	27596	27516 pt	28363	28317
26721	26411	26780	26480	27597	27511 pt 27512 pt 27513 pt	28364	28318 28319
26722	26413	26781	26481		27513 pt 27514 pt 27515 pt	28656	2911C
70/22	20413	26782	26482		27516 pt	28691	2911B
26723	26414	26790	26460 pt	27598	27519		
26724	2641B		26490	27599	27531	28916 28917	28915
6730	26430 pt	26791	26493	2759A	27510 pt	2911D	2911D pt
	26435	26792	26494	27960	27530	29990	2911D pt
6731		26793	26496	2,000	27950	2000	29990
6732	26436	26794	26460 pt	27961	27951	31430	31430
26733	26437		· .	-	35557 pt	-	31433 31434
6740	26430 pt	26795	26497	27962	27952		31435
26741	26434	27416 27417	27411	27963	27532 27547	31440	31440 31445
26742	26438	27418	27412		27930 27940		31446 31447 31448
26750	26450	27419	27414	28247	28243 28245	31490	31490
26751	26453	2741A 2741B	27415	28248	28246	_	31491 31493
26752	26454	27590	27510 pt	28350	2831A		31495 31496 31497

# APPENDIX D. Changes in Census of Manufactures Product Codes for 1987

report forms for	r 1987]										
1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published
20119 14	20119 14	20119 12 20119 13	20159 17	20179 17	20179 17	20343 21	20341 21	20341 21	20488 21	20488 21	20488 18
2011B 15	2011B 15	2011A 15	20159 51	20179 51	20179 51	20343 23	20341 23	20341 23	20488 23	20488 23	20488 17 pt
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		23924 45 pt	24215 16	24215 16	24215 77 pt	24931 09	24921 09	24920 09	24994 99	2499A 99	2499A 13 pt 2499A 15 pt 2499A 63
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1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 coilected	1982 published
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report forms to	1 1307]										
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		28511 38 28511 43 28511 45	28744 30	28744 30	28744 31 pt	28995 88 28995 89	28995 88 28995 89	28995 87			31610 37 pt 31610 39 pt
		28511 47 28511 49	28744 40	28744 40	28744 11 pt 28744 21 pt	28995 94 28995 96	28995 94 28995 96	28995 95	31610 05	31610 05	31610 16 pt 31610 18 pt 31610 35 pt
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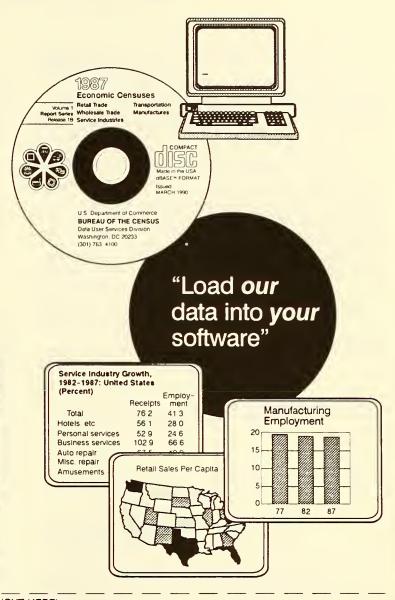
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#### **Preliminary Reports**

#### Industry series—83 reports (MC87-I-20A(P) to -39D(P))

Preliminary industry data are issued in 83 separate reports covering 459 industries. Preliminary summary data for the U.S. and States are released in one report.

#### **Final Reports**

#### Industry series—83 reports (MC87-1-20A to -39D)

Each of the 83 reports provides information for a group of related industries ("dairy products" includes industries for butter, cheese, milk, etc.). Final figures for the United States are shown for each of the 459 manufacturing industries on quantity and value of products shipped and materials consumed, cost of fuels and electric energy, capital expenditures, assets, rents, inventories, employment, payroll, payroll supplements, hours worked, value added by manufacture, number of establishments, and number of companies. Comparative statistics for earlier years are provided where available.

For each industry, data on value of shipments, value added buy manufacture, capital expenditures, employment, and payroll are shown by employment-size class of establishment, State, and degree of primary product specialization.

#### Geographic area series—51 reports (MC87-A-1 to -51)

A separate report is being published for each State and the District of Columbia. Each report presents data for industry groups and industries on value of shipments, cost of materials, value added by manufacture, employment, payroll, hours worked, new capital expenditures, and number of manufacturing establishments for the State, MSA's, counties, and selected places. Comparative statistics for earlier census years are shown for the State and large MSA's. Manufacturing totals are presented for each county and for places with significant manufacturing activity. Detailed statistics (including inventories, assets, rents, and energy costs) are presented only in statewide totals.

#### Subject series—7 reports (MC87-S-1 to -7)

Each of the seven reports contains detailed statistics for an individual subject, such as concentration ratios in manufacturing, type of organization, water use in manufacturing, textile machinery in place, distribution of sales by class of customer, manufacturers' shipments to the Federal Government, and a general national-level summary.

#### Reference series—1 report (MC87-R-1)

The Numerical List of Manufactured and Mineral Products includes a description of the principal products and services published in the 1987 Censuses of Manufactures and Mineral Industries.

### Location of Manufacturing Plants—1 report (MC87-LM)

This report includes data for number of establishments by four-digit SIC industry and by employment-size class for counties, incorporated places of 2,500 inhabitants or more, and zip codes for each State. (This report is available only on magnetic tape and CD-ROM.)

#### Analytical Reports—3 reports (AR87-1 to -3)

#### **Exports From Manufacturing Establishments (AR87-1)**

This report presents data on exports by two- and three-digit SIC industry groups for the United States and States. Information is presented on value of direct report shipments and estimates of the employment required to manufacture these products. Included are estimates of employment in manufacturing and nonmanufacturing establishments that supply parts, materials, and services for production of manufactured exports.

### Selected Characteristics of Manufacturing Establishments That Export (AR87-2)

This report presents data on the number of manufacturing companies and establishments that export by major group, State, employment size, and ratios of exports to shipments.

#### **Indexes of Production (AR87-3)**

The indexes presented in this report are designed to measure the change in physical output of each manufacturing and mineral industry between 1982 and 1987.

#### MICROFICHE

Every final published report in the 1987 Census of Manufactures will be available on microfiche.

## PUBLIC-USE COMPUTER TAPES AND COMPACT DISCS

Data from the final industry series, geographic area series, and the Location of Manufacturing Plants report will be available on public-use computer tapes and compact discs-read only memory (CD-ROM). These tapes will provide the same information found in the final reports. Computerized data products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, DC 20233.

#### OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, construction industries, mineral industries, transportation, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1987 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.





